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National Analysis

The Biennial RCRA Hazardous Waste Report (Based on 1991 Data)

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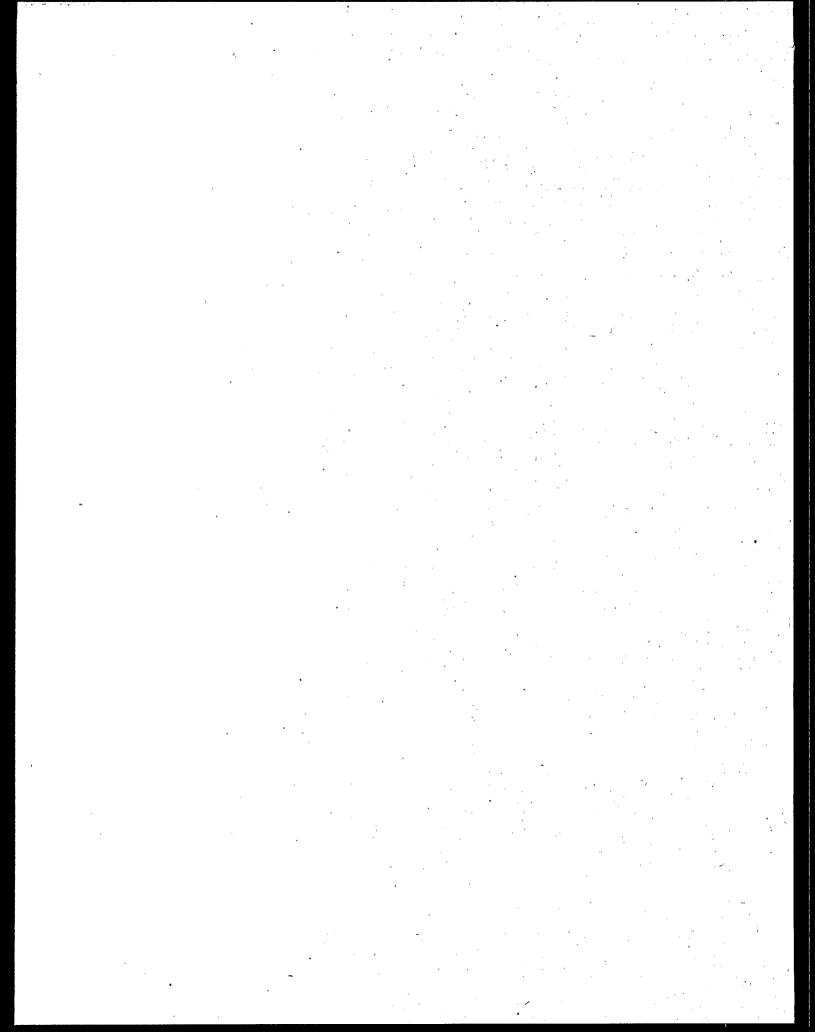
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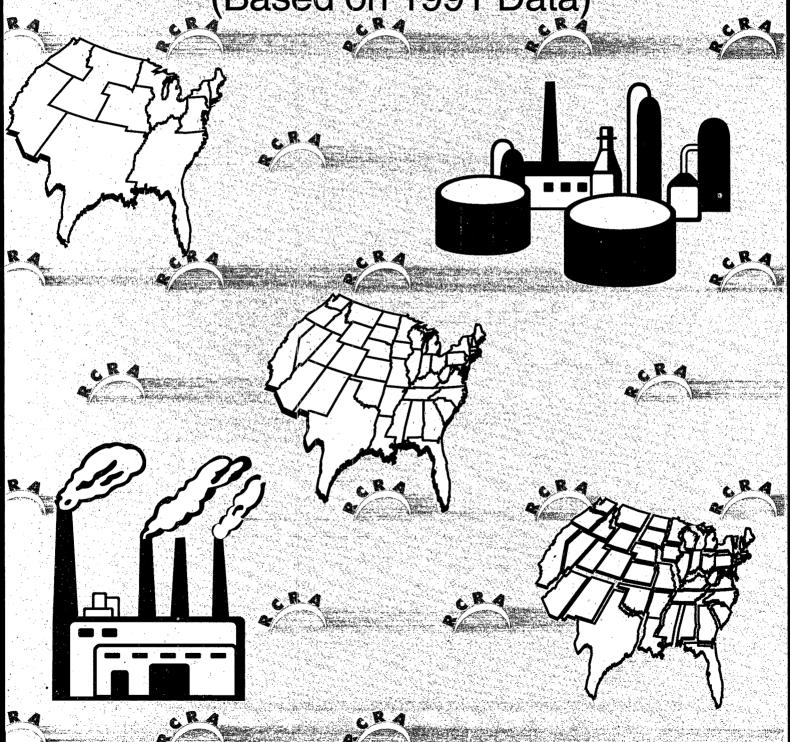
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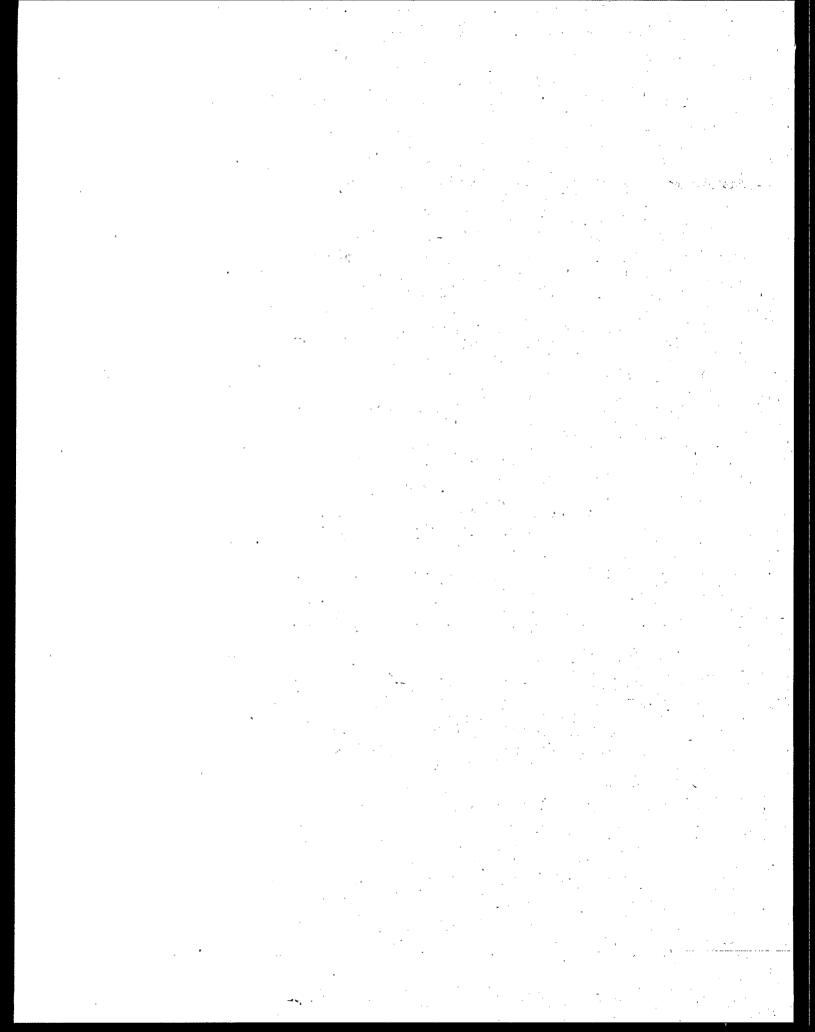
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The Biennial RCRA
Hazardous Waste Report
(Based on 1991 Data)





EXECUTIVE SUMMARY

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The purpose of this report is to communicate the findings of EPA's 1991 Biennial Reporting System (BRS) data collection efforts to the public, government agencies, and the regulated community. The report consists of six documents:

- o Executive Summary—an overview of national hazardous waste generation and management practices;
- o National Analysis—a detailed look at waste handling practices in the EPA regions, the states and at the largest facilities in the nation, including quantities of generation, management, shipments and receipts, and interstate imports and exports, as well as counts of generators and managers;
- o State Summary Analysis--two-page overviews of the generation and management practices of individual states;
- o State Detail Analysis--a detailed look at each state's waste handling practices, including overall totals for generation, management, and shipments and receipts, as well as totals for the largest fifty facilities;
- o List of Large Quantity Generators--identifies every hazardous waste generator in the United States that reported itself to be a large quantity generator in 1991; and
- o List of Treatment, Storage and Disposal Facilities--identifies every hazardous waste manager in the United States that reported itself to be a treatment, storage or disposal facility in 1991.

¹The term "state" includes the District of Columbia, Puerto Rico, Guam, the Trust Territories, and the Virgin Islands, in addition to the 50 United States.

²BRS respondents have submitted Confidential Business Information (CBI) pursuant to 40 CFR 260.2(b). While not included in any public BRS database, CBI has been incorporated into this report wherever possible. Where CBI has been omitted to preserve confidentiality, a footnote has been provided.

RCRA HAZARDOUS WASTE GENERATION

In 1991, 23,426 large quantity generators produced 306 million tons of hazardous wastes regulated by RCRA.³ This is an increase of 3,000 generators and 108 million tons of waste compared to 1989. As identified in Exhibit 1, the largest hazardous waste generating states were Texas (104 million tons), Michigan (32 million tons), Louisiana (31 million tons), and New Jersey (29 million tons). Together, these states accounted for 64% of the national total.

In comparing 1991 and 1989 data, it is important to note that many new wastes were captured by RCRA in 1990 with the promulgation of the Toxicity Characteristic (TC) Rule. The TC Rule added 25 new hazardous waste codes (D018-D043) and required more stringent analytical tests for the presence of toxic constituents in waste. These codes captured, at a minimum, 137 million tons of previously unregulated wastes. An additional 25 million tons were described by D018-D043 mixed with other waste codes. This suggests that the new toxicity characteristic waste listings captured between 137 and 162 million tons of previously non-regulated wastes. Excluding these newly regulated wastes, the amount of hazardous waste generated in 1991 was between 29 and 54 million tons less than the 198 million tons reported in 1989.

Hazardous waste generators are included in the "National Biennial RCRA Hazardous Waste Report" if they identified themselves as large quantity generators. The following are the federal criteria for being a large quantity generator:

- o The generator generated in any single month 1,000 kg (2,200 lbs. or 1.1 tons) or more of RCRA hazardous waste; or
- The generator generated in any single month, or accumulated at any time, 1
 kg (2.2 lbs) of RCRA acute hazardous waste; or
- The generator generated or accumulated at any time more than 100 kg (220)

³This quantity only includes waste managed in treatment units subject to RCRA permitting standards or transportation regulations. Hazardous waste managed in units exempt from RCRA permitting standards, such as treatment systems permitted by the National Pollutant Discharge Elimination System (NPDES), was not included in this report.

lbs) of spill cleanup material contaminated with RCRA acute hazardous waste.

According to these criteria, a generator that reports more than 13.2 tons (12 months x 1.1 tons) of annual hazardous waste generation must be a large quantity generator, because the generator must have generated at least 1.1 tons in at least one month. A generator that reports less than 13.2 tons in a year may not be a large quantity generator, because they may have generated less than 1.1 tons in every month. Of the 23,426 generators that identified themselves as large quantity generators, there are 14,190 generators that generated more than 13.2 tons in 1991, 8,086 that generated between 1.1 and 13.2 tons, and 1,150 that generated less than 1.1 tons.

It is important to note that the large quantity generators identified in this report have been included on the basis of the best available and most current information provided electronically to the EPA by the States. Both the EPA and the States have made significant efforts to ensure the accuracy of these data. However, the large quantity generator counts may include some generators that met lower, state-defined thresholds for large quantity generators. The EPA and the States endeavor to control for variation in state programs, but it is not always possible to distinguish generators that the federal threshold determines to be large quantity generators from generators that a state threshold determines to be large quantity generators. The EPA and the States also endeavor to ensure that only federally regulated wastes are counted in the determination of federal large quantity generators, but the large quantity generator counts may include generators that, when determining whether they were large quantity generators, counted wastes regulated only by their states or wastes that are exempt from federal regulation.

RCRA HAZARDOUS WASTE MANAGEMENT

In 1991, 3,862 treatment, storage, or disposal facilities (TSDs) subject to RCRA permitting standards managed 294 million tons of hazardous waste. This represents an 800 facility increase in the number of TSDs and a 98 million ton increase in the amount of waste managed as compared to 1989. As identified in Exhibit 2, the states managing the largest quantities of hazardous wastes were Texas (104 million tons), Michigan (32 million tons), Louisiana (32 million tons), and New Jersey (30 million tons). Together, these

states accounted for 67% of the national management total.

The majority (76%) of the national total was managed in aqueous treatment units.

One hundred and thirty-two (132) million tons were managed in aqueous organic treatment units, 19 million tons in aqueous inorganic treatment units, and 74 million tons in both inorganic and organic aqueous treatment units.

Land disposal accounts for 9.0% of the management total. Nationwide, 23 million tons of hazardous wastes were disposed in underground injection wells, 1.7 million tons were disposed in landfills, 240 thousand tons were managed in surface impoundments, and 52 thousand tons were managed by land application (land farming).

Recovery operations account for 2.2% of the national management total. Facilities reported that 3.6 million tons were managed in solvent recovery units, 1.4 million tons were managed in fuel blending units, 1.0 million tons were managed in metals recovery units, and 480 thousand tons were recovered by other methods such as acid regeneration, waste oil recovery, and non-solvent organic recovery.

Thermal treatment accounts for 1.1% of the national management total. A total of 1.9 million tons were incinerated, while facilities reused 1.5 million tons as fuel in boilers or industrial furnaces.

RCRA HAZARDOUS WASTE SHIPMENTS AND RECEIPTS

In 1991, 24,000 facilities reported shipping a total of 13 million tons of waste, of which five million tons were shipped interstate. The states that shipped (in or out of state) the largest quantities of wastes were Texas, Connecticut and Michigan. The states that received the largest quantities of waste (from in or out of state) were California, Ohio and Michigan. The largest net importers (imports minus exports) were Ohio (150 thousand tons), South Carolina (127 thousand tons), and Kansas (110 thousand tons). The largest net exporters (exports minus imports) were Massachusetts (197 thousand tons), California (136 thousand tons), and Texas (131 thousand tons).

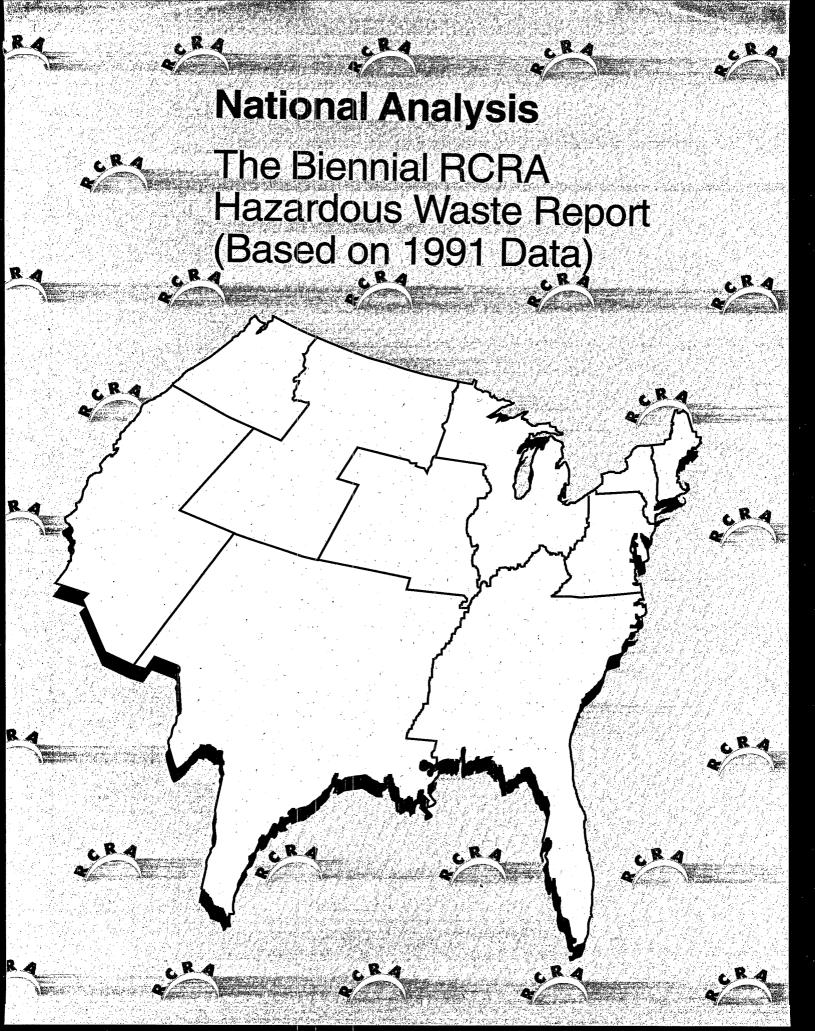
Exhibit 1 Quantity of RCRA Hazardous Waste Generated, and Number of Hazardous Waste Generators, by State, 1991

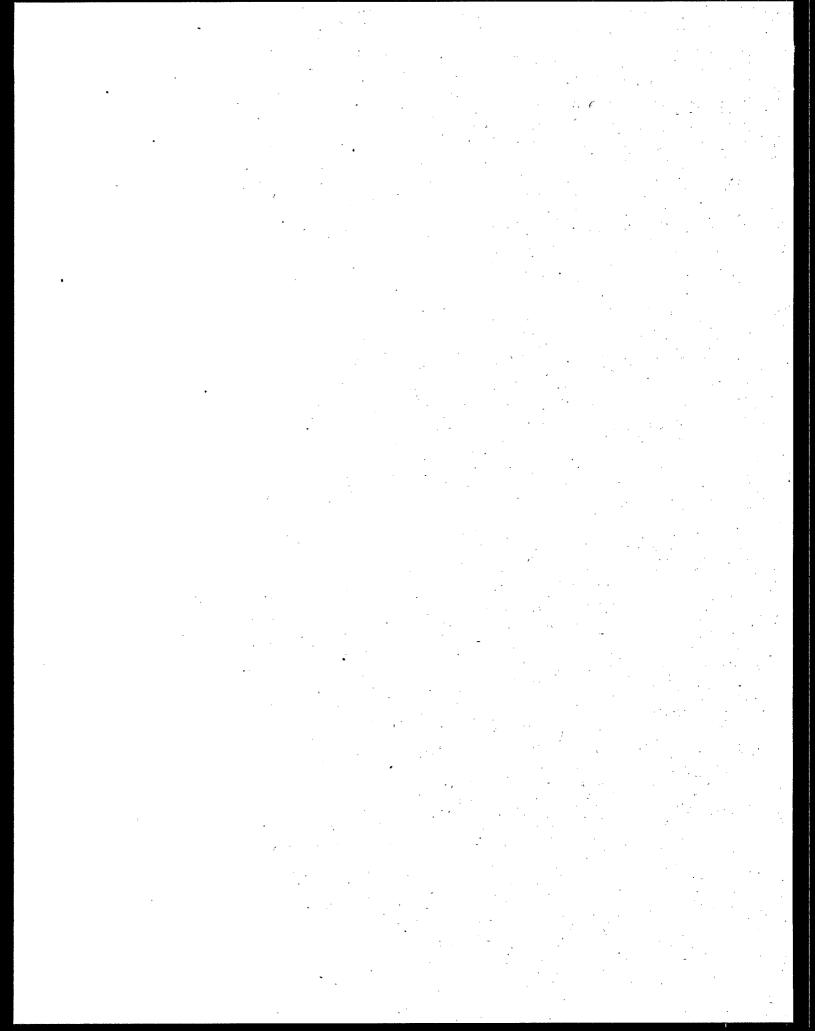
	H/	ZARDOUS WASTE	QUANTITY	HAZ	RDOUS WASTE	GENERATORS
STATE		TONS	1 4	1:	NUMBER OF	
	RANK	GENERATED	PERCENTAGE	RANK	GENERATORS	PERCENTAGE
ALABAMA	27	559,823	0.2	23	277	1.2
ALASKA	42	24,141	0.0	45	58	0.2
ARIZÓNA	34	158,279	0.1	26	249	1.1
ARKANSAS	23	748,018	0.2	34	149	0.6
CALIFORNIA	8	12,925,393	4.2	2	2,116	9.0
COLORADO	. 30	478,343	0.2	35	146	0.6
CONNECTICUT	15	2,062,163	0.7	15	483	2.1
DELAWARE	43	20,531	0.0	43	63	0.3
DISTRICT OF COLUMBIA	53	975	0.0	52	11	0.0
FLORIDA	28	508,839	0.2	18	399	1.7
GEORGIA	22	757,885	0.2	18	399	1.7
GUAM	55	346	0.0	53	8.	0.0
HAWAII	51	2,032	0.0	48	35	0.1
IDAHO	12	4,350,064	1.4	47	40	0.1
ILLINOIS	7	13,086,020	4.3	. 7	1,229	5.2
INDIANA	19	1,633,861	0.5	11	671	2.9
IOWA	37	126,218	0.0	32	155	0.7
KANSAS	13	3,215,044	1.1	29	177	0.7
KENTUCKY	29	487.622	0.2	16	465	2.0
LOUISIANA	3	31,486,169	10.3	22	309	1.3
MAINE	46	11,657	0.0	32	155	0.7
MARYLAND	39	75,911	0.0	17	430	1.8
MASSACHUSETTS	32	274,985	0.1	14	552	2.4
MICHIGAN	2	31,862,518	10.4	9	755	3.2
MINNESOTA	11	5,662,647	1.9	24	276	
MISSISSIPPI	9	8,050,831	2.6	28	276 178	1.2
MISSOURI	24	686,651	0.2	20	389	0.8
MONTANA	47	11,177	0.0	46	54	1.7
NEBRASKA	40	35,705	0.0	40		0.2
NEVADA	48	9,951	0.0	41	71	0.4 0.3
NEW HAMPSHIRE	44	17,309	0.0	30	166	0.3
NEW JERSEY	4	29,490,704	9.6	3	1,661	
NEW MEXICO	35	155,943	0.1	42	68	7.1
NEW YORK	5	18,036,041	5.9	1	2,627	0.3 11.2
NORTH CAROLINA	31	281,849	0.1	13	582	
NORTH DAKOTA	25	685,256	0.1	51	16	2.5 0.1
ОНЮ	16	1,809,547	0.2	- 4	1,542	0.1 6.6
OKLAHOMA	20	933,230	0.8	31	1,542	
OREGON	36	132,297	0.0	27	191	0.7 0.8
PENNSYLVANIA	18	1,692,608	0.6	6	1,264	
PUERTO RICO	14	3,120,686	1.0	39		5.4
RHODE ISLAND	45	14,653	0.0	37	97 107	0.4
SOUTH CAROLINA	26	604,456	0.2	21	337	0.5
SOUTH DAKOTA	52	979	0.0	50	21	1.4
TENNESSEE	17	1,697,402	0.6	10	683	0.1
TEXAS	. 1	104,079,270	34.0	5	1,394	2.9
TRUST TERRITORIES	49	2,835	0.0	54	3	6.0
UTAH	21	900,643	0.3	38	99	0.0 0.4
VERMONT	41	35,565	0.0	43	63	
VIRGIN ISLANDS	54	811	0.0	55	1	0.3
VIRGINIA	38	96,169	0.0	25	264	0.0
WASHINGTON	6	14,726,588	4.8	25 8	939	1.1
WEST VIRGINIA	10	7,619,802	2.5	36		4.0
WISCONSIN	33	258,308	0.1	12	120	0.5
WYOMING	50	2.127	0.0	49	607 28	2.6
TOTAL						0.1
LIVIAL		305.708.881	100.0		23.426	100.0

Exhibit 2 Quantity of RCRA Hazardous Waste Managed and Number of TSDs, by State, 1991

	RCRA	HAZARDOUS WASTE	QUANTITY1	TSD FACILITIES			
STATE	RANK	TONS MANAGED	PERCENTAGE	RANK	NUMBER	PERCENTAGE	
ALABÂMA	23	675,999	0.2	23	54	1.4	
ALASKA	40	21,178	0.0	· 27	41	1.1	
ARIZONA	36	122,891	0.0	31	33	0.9	
ARKANSAS	21	757,956	0.3	37	. 24	0.6	
CALIFORNIA	6	12,130,053	4.1	2	409	10.6	
COLORADO	26	468,167	0.2	29	. 40	1.0	
CONNECTICUT	27	371,208	0.1	13	. 77	2.0	
DELAWARE	45	2,273	0.0	42	11	0.3	
DISTRICT OF COLUMBIA	51	. 0	0.0	51.	2	0.1	
FLORIDA	32	195,490	0.1	15	72	1.9	
GEORGIA	18	1,103,055	0.4	21	59	1.5	
GUAM	51	0	0.0	51	2	0.1	
HAWAII	46	1,428	0.0	44	9	0.2	
IDAHO	13	3,178,455	1.1	42	· 11	0.3	
ILLINOIS	7	12,083,019	4.1	3	217	5.6	
INDIANA	16	1,405,359	0.5	8	102	2.6	
IOWA	37	83,336	0.0	34	30	0.8	
	12	3.310.784	1.1	27	41	1.1	
KANSAS	28	3,310,784	0.1	32	32	0,8	
KENTUCKY		· ·	10.7	19	63	1.6	
LOUISIANA	3	31,589,603	0.0	24	52	1.3	
MAINE	47	1,054	0.0	12	,52 79	2.0	
MARYLAND	41	19,084	0.0	26	43	1.1	
MASSACHUSETTS	42	9,433		6	152	3.9	
MICHIGAN	2	31,922,898	10.8	•	60	1.6	
MINNESOTA	11	5,565,626	1.9	20	56	1.5	
MISSISSIPPI	9	8,013,068	2.7	22	87	2.3	
MISSOURI	24	589,673	0.2	10			
MONTANA	44	3,270	0.0	44	9	0.2 0.4	
NEBRASKA	39	26,065	0.0	39	16	0.4	
NEVADA	38	52,784	0.0	41	12	· ·	
NEW HAMPSHIRE	51	0	0.0	51	2	0.1	
NEW JERSEY	4	29,662,220	10.1	1	781	20.2	
NEW MEXICO	33	148,932	0.1	38	20	0.5	
NEW YORK	5	18,320,124	6.2	7	109	2.8	
NORTH CAROLINA	30	252,993	0.1	14	74.	1.9	
NORTH DAKOTA	22	683,825	0.2	47	6	0.2	
оню	15	1,870,654	0.6	5	. 185	4.8	
OKLAHOMA .	19	980,618	0.3	30	39	1.0	
OREGON	34	133,021	0.0	44	9	0.2	
PENNSYLVANIA	17	1,405,204	0.5	11	80	2.1	
PUERTO RICO	14	3,051,006	1.0	32	32	0.8	
RHODE ISLAND	43	8,642	0.0	40	15	0.4	
SOUTH CAROLINA	25	528,458	- 0.2	18	64	1.7	
SOUTH DAKOTA	51	0	0.0	50	3	0.1	
TENNESSEE	20	778,652	0.3	9	100	2.6	
TEXAS	1	103,946,014	35.3	4	206	5.3	
TRUST TERRITORIES	48	887	0.0	51	2	0.1	
UTAH	29	284,846	0.1	36	26	0.7	
VERMONT	51	0	0.0	48	. 5	0.1	
VIRGIN ISLANDS	49	219	0.0	51	2	0.1	
VIRGINIA	35	126,998	0.0	16	66 -	1.7	
WASHINGTON	8	10,477,204	3.6	16	66	1.7	
WEST VIRGINIA	10	7,552,337	2.6	35	27	0.7	
WISCONSIN	31	221,065	0.1	25	44	1.1	
WYOMING	50	119	0.0	49	4	0.1	
	. 30	1.1 <i>-</i> 7	<u> </u>				

¹Quantity managed only by storage is excluded.





National Biennial RCRA Hazardous Waste Report

The United States Environmental Protection Agency (EPA), in cooperation with individual States,¹ biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The purpose of this report is to communicate the initial findings of EPA's 1991 Biennial Reporting System (BRS) data collection efforts to the public, government agencies, and the regulated community.²

1.0 WASTE GENERATION

This section presents a series of exhibits describing RCRA hazardous waste generation in 1991. Nationwide, 23,426 large quantity generators (LQGs) produced 306 million tons³ of hazardous waste subsequently regulated by RCRA.⁴ Throughout this report, the term RCRA hazardous waste refers to solid waste assigned a federal hazardous waste code and regulated by RCRA, either because it was managed in a unit subject to RCRA permitting standards or because it was shipped and subject to RCRA transportation requirements. Individual states may choose to regulate additional wastes not identified as hazardous by EPA. Hazardous wastes assigned only a state hazardous waste code are not included in this report. Similarly, hazardous wastes managed only in units subject to state permitting requirements, or wastes that are exempt from RCRA permitting requirements, are not included in this report.

Exhibits 1.1, 1.2, and 1.3 present the quantity of RCRA hazardous waste generated and the number of LQGs in each EPA region in 1991. Three regions produced

¹The term "State" includes the District of Columbia, Puerto Rico, Guam, the Trust Territories, and the Virgin Islands.

²BRS respondents have submitted confidential business information (CBI) pursuant to 40 CFR 260.2(b). While not included in any public BRS database, CBI has been incorporated into this report wherever possible. Where CBI has been omitted to preserve confidentiality, a footnote has been provided.

³English (short) tons.

⁴This quantity only includes waste managed in treatment units subject to RCRA permitting standards or subject to RCRA transportation regulations. Hazardous waste managed in units exempt from RCRA permitting standards, such as units permitted by the National Pollutant Discharge Elimination System (NPDES), were not included in this report.

Exhibit 1.1 Number and Percentage of RCRA Hazardous Waste Generators and Total RCRA Hazardous Waste Quantity Generated, by EPA Region, 1991

EPA ·	HAZARDOUS W	ASTE QUANTITY	LARGE QUANTITY GENERATORS			
REGION	TONS GENERATED	PERCENTAGE	NUMBER	PERCENTAGE		
1	2,416,332	0.8	1,526	6.5		
2	50,648,243	16.6	4,386	18.7		
3	9,505,997	3.1	. 2,152	9.2		
4	12,948,706	4.2	3,320	14.2		
5	54,312,901	17.8	5,080	21.7		
6	137,402,630	44.9	2,081	8.9		
7	4,063,618	1.3	807	3.4		
8	2,078,526	0.7	364	1.6		
9	13,098,837	4.3	2,482	10.6		
10	19,233,091	6.3	1,228	5.2		
TOTAL	305,708,881	100.0	23,426	100.0		

Exhibit 1.2 Number and Percentage of RCRA Hazardous Waste Generators and Total RCRA Hazardous Waste
Quantity Generated in Each EPA Region, by Highest Quantity Generated, 1991

EPA	HAZARDOUS W	ASTE QUANTITY	LARGE QUANTIT	Y GENERATORS
REGION	TONS GENERATED	PERCENTAGE	NUMBER	PERCENTAGE
6	137,402,630	44.9	2,081	8.9
5	54,312,901	17.8	5,080	21.7
2	50,648,243	16.6	4,386	18.7
10	19,233,091	6.3	1,228	5.2
9	13,098,837	4.3	2,482	10.6
4	12,948,706	4.2	3,320	14.2
3	9,505,997	3.1	2,152	9.2
7	4,063,618	1.3	807	3.4
1	2,416,332	0.8	1,526	6.5
8	2,078,526	0.7	364	1.6
TOTAL	305,708,881	100.0	23,426	100.0

Note: Columns for these two exhibits may not sum due to rounding.

Exhibit 1.3 Number and Percentage of RCRA Hazardous Waste Generators and Total RCRA Hazardous Waste Quantity Generated in Each EPA Region, by Highest Number of Generators, 1991

	LARGE QUANTI	TY GENERATORS	HAZARDOUS WA	HAZARDOUS WASTE QUANTITY			
EPA REGION	NUMBER	PERCENTAGE	TONS GENERATED	PERCENTAGE			
5	5,080	21.7	54,312,901	17.8			
2	4,386	18.7	50,648,243	16.6			
4	3,320	14.2	12,948,706	4.2			
9	2,482	10.6	13,098,837	4.3			
3	2,152	9.2	9,505,997	3.1			
6	2,081	8.9	137,402,630	44.9			
1	1,526	6.5	2,416,332	0.8			
10	1,228	5.2	19,233,091	6.3			
7	807	3.4	4,063,618	1.3			
8	364	1.6	2,078,526	0.7			
TOTAL	23,426	100.0	305,708,881	100.0			

79% of the 306 million tons generated nationwide. Region 6 generated 137 million tons, Region 5 generated 54 million tons, and Region 2 generated 51 million tons.

Certain states within these regions account for these high volumes of waste. As shown in Exhibits 1.4, 1.5, and 1.6, the largest hazardous waste generating states were Texas (104 million tons), Michigan (32 million tons), Louisiana (31 million tons) and New Jersey (29 million tons). Together, these states account for 64% of the national total.

Large generators within these states account for the majority of these generation totals. As shown in Exhibit 1.7, the largest 50 generators account for 81% (249 million tons) of the national total. Of the 50 generators, 22 are located in Texas. These 22 facilities account for 93% of Texas's generation total. The one Michigan site, Dow Chemical Co., accounts for 95% of Michigan's generation. The five Louisiana facilities account for 90% of Louisiana's generation. And, the one New Jersey site, E.I. DuPont Chambers Works, accounts for 97% of New Jersey's generation.

In 1991, 23,426 facilities identified themselves as large quantity generators (LQGs).⁵ The EPA regions with the largest numbers of LQGs were Region 5 (5,080), Region 2 (4,386), and Region 4 (3,320). These regions account for 55% of the total number of LQGs. See Exhibits 1.1, 1.2, and 1.3. The states with the most LQGs were New York (2,627), California (2,116), and New Jersey (1,661). See Exhibits 1.4, 1.5, and 1.6.

⁵ EPA lists all reported large quantity generators in the "National Biennial RCRA Hazardous Waste Report: List of Large Quantity Generators in the United States." This document may be obtained through the RCRA Hotline by calling 1-800-424-9346.

Exhibit 1.4 Quantity of RCRA Hazardous Waste Generated, and Number of Hazardous Waste Generators, by State, 1991

	HA	ZARDOUS WASTE	QUANTITY	HAZA	RDQUS WASTE	SENERATORS
STATE	RANK	TONS GENERATED	PERCENTÀGE	RANK	NUMBER OF GENERATORS	PERCENTAGE
ALABAMA	27	559,823	0.2	23	277	1.2
ALASKA	42	24,141	0.0	45	58	0.2
ARIZONA	34	158,279	0.1	26	249	1.1
ARKANSAS	23	748,018	0.2	34	149	0.6
CALIFORNIA	8	12,925,393	4.2	2 .	2,116	9.0
COLORADO	30	478,343*	0.2	35	146	0.6
CONNECTICUT	15	2,062,163	0.7	15	483	2.1
DELAWARE	43	20,531	0.0	43	63	0.3
DISTRICT OF COLUMBIA	53	975	0.0	· 52	11	0.0
FLORIDA	28	508,839	0.2	18	399	1.7
GEORGIA	22	757,885	0.2	18	399	1.7
GUAM	- 55	346	0.0	53	8	0.0
HAWAII	51	2,032	0.0	48	35	0.1
IDAHO	12	4,350,064	1.4	47	40	0.2
ILLINOIS	7	13,086,020	4.3	7	1,229	5.2
INDIANA	19	1,633,861	0.5	11	671	2.9
IOWA	37	126,218	0.0	32	155	0.7
KANSAS	13	3,215,044	1.1	29	177	0.8
KANSAS KENTUCKY	29	487,622	0.2	16	465	2.0
	29 3	31,486,169	10.3	22	309	1.3
LOUISIANA		l vi	0.0	32	155	0.7
MAINE	46	11,657		1		
MARYLAND	: 39	75,911	0.0	17	430	1.8
MASSACHUSETTS / / /	32	274,985	0.1	14	552	2.4
MICHIGAN	2	31,862,518	10.4	9	755	3.2
MINNESOTA	11	5,662,647	1.9	24	276	1.2
MISSISSIPPI	9	8,050,831	2.6	28	178	0.8
MISSOURI	24	` 686,651	0.2	20	389	1.7
MONTANA	47	11,177	0.0	46	54	0.2
NEBRASKA	40	35,705	0.0	40 '	86	0.4
NEVADA '	48	9,951	0.0	41	71	0.3
NEW HAMPSHIRE	44	17,309	0.0	30	166	0.7
NEW JERSEY	4	29,490,704	9.6	3	1,661	7.1
NEW MEXICO	35	155,943	0.1	42	68	0.3
NEW YORK	5	18,036,041	5.9	1	2,627	11.2
NORTH CAROLINA	31	281,849	0.1	13	582	2.5
NORTH DAKOTA	25	685,256	0.2	51	16	0.1
OHIO	16	1,809,547	0.6	4	1,542	6.6
OKLAHOMA	20	933,230	0.3	31	161	0.7
OREGON	36	132,297	0.0	27	191	0.8
PENNSYLVANIA	18	1,692,608	- 0.6	6	1,264	5.4
PUERTO RICO	14	3,120,686	1.0	39	97	0.4
RHODE ISLAND	45	14,653	0.0	37	107	0.5
SOUTH CAROLINA	26	604,456	0.2	21	337	1.4
SOUTH CAROLINA	52	979	0.0	50	21	0.1
TENNESSEE	17	1,697,402	0.6	10	683	2.9
TEXAS	1 1	104,079,270	34.0	5	1,394	6.0
	49	,	0.0	54	3	0.0
TRUST TERRITORIES		2,835	0.0	38	5 99 ·	0.0
UTAH	21	900,643		1	•	0.4
VERMONT ANDS	41	35,565	0.0	43	63	•
VIRGIN ISLANDS	54	811	0.0	55	1	0.0
VIRGINIA	38	96,169	0.0	25	264	1,1
WASHINGTON	6	14,726,588	4.8	8	939	4.0
WEST-VIRGINIA	10	7,619,802	2.5	36	120	0.5
WISCONSIN	33	258,308	0.1	12	607	2.6
WYOMING	50	2,127	0.0	49	28	0.1
TOTAL		305,708,881	100.0	I	23,426	100.0

Exhibit 1.5 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Generated, and Number of Hazardous Waste Generators, 1991

	HA	ZARDOUS WASTE	QUANTITY	HAZA	ARDOUS WASTE	GENERATORS
STATE	RANK	TONS GENERATED	PERCENTAGE	RANK	NUMBER OF GENERATORS	PERCENTAGE
TEXAS	1	104,079,270	34.0	5	1,394	6.0
MICHIGAN	2	31,862,518	10.4	9	755	3.2
LOUISIANA	3	31,486,169	10.3	22	309	1.3
NEW JERSEY	4	29,490,704	9.6	3	1,661	7.1
NEW YORK	5	18,036,041	5.9	1 1	2,627	11.2
WASHINGTON	6	14,726,588	4.8	8	939	4.0
ILLINOIS	7	13,086,020	4.3	7	1,229	5.2
CALIFORNIA	8	12,925,393	4.2	2	2,116	9.0
MISSISSIPPI	9	8,050,831	2.6	28	178	0.8
WEST VIRGINIA	10	7,619,802	2.5	36	120	0.5
MINNESOTA	11	5,662,647	1.9	24	276	1.2
IDAHO	12	4,350,064	1.4	47	40	0.2
KANSAS	13	3,215,044	1.1	29	177	0.8
PUERTO RICO	14	3,120,686	1.0	39	97	0.4
CONNECTICUT	15	2,062,163	0.7	15	483	2.1
оню	16	1,809,547	0.6	4	1,542	6.6
TENNESSEE	17	1,697,402	0.6	10	683	2.9
PENNSYLVANIA	18	1,692,608	0.6	- 6	1,264	5.4
INDIANA	19	1,633,861	0.5	11	671	2.9
OKLAHOMA	20	933,230	0.3	31	161	0.7
UTAH	21	900,643	0.3	38	99	0.4
GEORGIA	22	757,885	0.2	18	399	1.7
ARKANSAS	23	748,018	0.2	34	149	0.6
MISSOURI	24	686,651	0.2	20	389	1.7
NORTH DAKOTA	25	685,256	0.2	51	16	0.1
SOUTH CAROLINA	26	604,456	0.2	21	337	1.4
ALABAMA	27	559,823	0.2	23	277	1.2
FLORIDA	28	508,839	0.2	18	399	1.7
KENTUCKY	29	487,622	0.2	16	465	2.0
COLORADO	30	478,343	0.2	35	146	0.6
NORTH CAROLINA	31	281,849	0.1	13	582	2.5
MASSACHUSETTS	32	274,985	0.1	- 14	552	2.4
WISCONSIN	33	258,308	0.1	12	607	2.6
ARIZONA	34	158,279	0.1	26	249	1.1
NEW MEXICO	35	155,943	0.1	42	68	0.3
OREGON	36	132,297	0.0	27	191	0.8
IOWA	37	126,218	0.0	32	155	0.7
VIRGINIA	38	96,169	0.0	25	264	1.1
MARYLAND	39	75,911	0.0	17	430	1.8
NEBRASKA .	40	35,705	0.0	40	. 86	0.4
VERMONT	41	35,565	0.0	43	63	0.3
ALASKA	42	24,141	0.0	45	58	0.2
DELAWARE	43	20,531	0.0	43	63	0.3
NEW HAMPSHIRE	44	17,309	0.0 ,	30	166	0.7
RHODE ISLAND	45	14,653	0.0	37	107	0.5
MAINE	46	11,657	0.0	32	155	0.7
MONTANA.	47	11,177	0.0	46	54	′ . 0.2 "
NEVADA	48	9,951	0.0	41	71	0.3
TRUST TERRITORIES	49	2,835	0.0	54	3	0.0
WYOMING	50	2,127	0.0	49 .	28	0.1
HAWAII	51	2,032	0.0	48	35	0.1
SOUTH DAKOTA	52	979	0.0	50	. 21	0.1
DISTRICT OF COLUMBIA	53.	975	0.0	52	11	0.0
VIRGIN ISLANDS	54	811	0.0	55	1	0.0
GUAM	55	346	0.0	- 53	8	0.0
TOTAL		305,708,881	100.0		23,426	100.0

Exhibit 1.6 Rank Ordering of States Based on Number of Hazardous Waste Generators, and Quantity of RCRA Hazardous Waste Generated, 1991

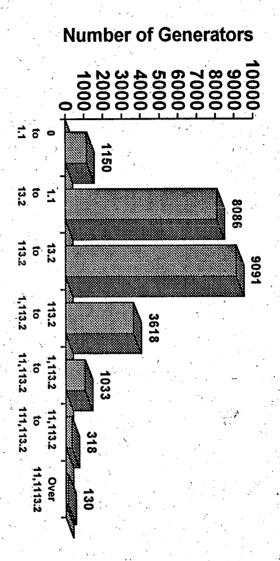
	HAZ	ARDOUS WASTE G	ENERATORS	НА	ZARDOUS WASTE	QUANTITY
STATE		NUMBER OF			TONS	PERCENTAGE
STATE	RANK	GENERATORS	PERCENTAGE	RANK	GENERATED	PERCENTAGE
NEW YORK	-1	2,627	11.2	5	18,036,041	5.9
CALIFORNIA	2 .	2,116	9.0	8	12,925,393	4.2
NEW JERSEY	3	1,661	7.1	4	29,490,704	9.6
ОНЮ	` 4´	1,542	6.6	16	1,809,547	0.6
TEXAS	5	1,394	6.0	1	104,079,270	34.0
PENNSYLVANIA	6	1,264	5.4	18	1,692,608	0.6
ILLINOIS	7	1,229	5.2	7	13,086,020	4.3
WASHINGTON	, 8	939	4.0	6	14,726,588	4.8
MICHIGAN	9	755	3.2	2	31,862,518	10.4
TENNESSEE	10	683	2.9	17	1,697,402	0.6
INDIANA	11	671	2.9	19	1,633,861	0.5
WISCONSIN	12	607	2.6	33	258,308	0,1
NORTH CAROLINA	13	582	2.5	31	281,849	0.1
MASSACHUSETTS	14	552	2.4	32	274,985	0.1
CONNECTICUT	15	483	2.1	15	2,062,163	0.7
KENTUCKY	, 16	465	2.0	29	487,622	0.2
MARYLAND	17	430	1.8	39	75,911	0.0
FLORIDA	18	399	1.7	28	508,839	0.2
GEORGIA	18 20	399	1.7	22 24	757,885	0.2
MISSOURI		389	1.7	T .	686,651	0.2
SOUTH CAROLINA	21 22	337	1.4	26	604,456	0.2
LOUISIANA		309	1.3	3	31,486,169	10.3
ALABAMA	23 24	277 276	1.2 1.2	27	559,823	0.2
MINNESOTA VIRGINIA	25	264		. 11 38	5,662,647	1.9
ARIZONA	25 26	249	1.1 1.1	38 34	96,169 158,279	0.0 0.1
OREGON	27	191	0.8	36	132,297	0.0
MISSISSIPPI	28	178	0.8	9	8,050,831	2.6
KANSAS	29	178	0.8	13	3,215,044	1.1
NEW HAMPSHIRE	30	166	0.7	44	17,309	0.0
OKLAHOMA	31	161	0.7	20	933,230	0.3
MAINE	32	155	0.7	46	11,657	0.0
IOWA	32	155	0.7	37	126,218	0.0
ARKANSAS	34	149	0.6	23	748,018	0.2
COLORADO	35	146	0.6	30	478,343	0.2
WEST VIRGINIA	36	120	0.5	10	7,619,802	2.5
RHODE ISLAND	37	107	0.5	45	14,653	0.0
UTAH	38	99	0.4	21	900,643	0.3
PUERTO RICO	39	97	0.4	14	3,120,686	1.0
NEBRASKA	40	86	0.4	40	35,705	0.0
NEVADA	41	71	0.3	48	9,951	0.0
NEW MEXICO	42	68	0.3	35	155,943	0.1
DELAWARE	43	63	0.3	43	20,531	0.0
VERMONT	43	63	0,3	41	35,565	0.0
ALASKA	45	58	0.2	42	24,141	0.0
MONTANA	46	54	0.2	47	11,177	0.0
IDAHO	47	40	0.2	12	4,350,064	1.4
HAWAII	48	35	0.1	51	2,032	0.0
WYOMING	49	28	0.1	50	2,127	0.0
SOUTH DAKOTA	50	21	0.1	52	979	0.0
NORTH DAKOTA	51	16	0.1	25	685,256	0.2
DISTRICT OF COLUMBIA	52	11	0.0	53	975	0.0
GUAM	53	8	0.0	55	346	0.0
TRUST TERRITORIES	54	3	0.0	49	2,835	0.0
VIRGIN ISLANDS	55	1	0.0	54	811	, 0.0 ″,
TOTAL		23,426	100.0	;	305,708,881	100.0
					,,	

Exhibit 1.7 Fifty Largest RCRA Hazardous Waste Generators in the U.S., 1991

RANK	EPA ID	NAME	СІТҮ	TONS GENERATED
1	MID000724724	THE DOW CHEMICAL COMPANY	1	
2	TXD008080533	AMOCO OIL COMPANY REFINERY	MIDLAND,MI TEXAS CITY,TX	30,149,025
3	NJD002385730	E.I. DUPONT-CHAMBERS WORKS	DEEPWATER,NJ	29,482,014
4	LAD008080350	CITGO PETROLEUM CORPORATION	,	28,736,216
5	TXD067285973	SHELL OIL COMPANY	LAKE CHARLES,LA DEER PARK,TX	13,547,750 10,647,199
6	ILD080012305	SHELL OIL CO	ROXANA,IL	9,456,303
7	TXD050309012	AMOCO CHEMICAL COMPANY - CHOCOLATE BAYOU	ALVIN,TX	8,251,999
8	TXD048210645	PHILLIPS PETROLEUM SWEENY COMPLEX	OLD OCEAN,TX	7.514.714
9	CAD009164021	SHELL OIL CO/MARTINEZ MFG COMP	MARTINEZ,CA	7,303,645
10	WVD005005509	RHONE-POULENC AG COMPANY	INSTITUTE, WV	6,657,469
11	MSD054179403	CHEVRON	PASCAGOULA,MS	6,587,370
12	LAD041581422	UNION CARBIDE CHEMICALS & PLASTICS COMP.	TAFT,LA	6,512,541
13	TXD007330202	TEXAS EASTMAN DIVISION, EASTMAN CHEMICAL	LONGVIEW,TX	5,440,170
14	LAD056024391	BP OIL COMPANY - ALLIANCE REFINERY	BELLE CHASSE, LA	5,340,948
15	WAD069548154	ARCO PRODUCTS CO	FERNDALE,WA	5,110,410
16	TXD008123317	DUPONT DE NEMOURS & CO.	VICTORIA,TX	4,049,395
17	TXD000449694	MOBIL CHEMICAL CO O/A PLANT	BEAUMONT,TX	3,423,048
18	WAD009275082	SHELL OIL COMPANY	ANACORTES,WA	3,340,516
19	TXD008092793	DOW CHEMICAL U.S.A.	FREEPORT,TX	3,237,970
20	TXD051161990	CHAMPLIN REFINING AND CHEMICALS, INC.	CORPUS CHRISTI,TX	3,162,733
21	TXD058275769	LYONDELL PETROCHEMICAL COMPANY	CHANNELVIEW,TX	2,903,788
22	WAD009276197	TEXACO REFINING AND MARKETING	ANACORTES,WA	2,872,898
23	MND006172969	3M COMPANY	COTTAGE GROVE,MN	2,668,111
24	MND006162820	ASHLAND PETROLEUM COMPANY	ST. PAUL PARK,MN	2,618,665
25	TXD065096273	ROHM AND HAAS TEXAS, INC.	DEER PARK,TX	2,513,688
26	PRD090074071 .	PUERTO RICO SUN OIL CO.	YABUCOA,PR	2,510,110
27	ID4890008952	U.S. DOE IDAHO NATIONAL ENGINEERING LABO	SCOVILLE,ID	2,374,518
28	TXD001700806	MONSANTO COMPANY	ALVIN,TX	2,362,769
29	TXD008079527	STERLING CHEMICALS, INC.	TEXAS CITY,TX	1,920,754
30	TXD083472266	ARCO CHEMICAL COMPANY/CHANNELVIEW	CHANNELVIEW,TX	1,827,968
31	KSD087418695	TOTAL PETROLEUM INC	ARKANSAS CITY,KS	1,821,923
32	LAD008175390	AMERICAN CYANAMID	WAGGAMAN,LA	1,722,587
33	CAD041472986	NATIONAL SEMICONDUCTOR CORP	SANTA CLÀRA,CA	1,605,142
34	TXD000836486	ISK BIOTECH CORP./GREENS BAYOU PLANT	HOUSTON,TX	1,577,457
35	CTD990672081	PRATT & WHITNEY AIRCRAFT GROUP MD&CPD	EAST HARTFORD,CT	1,559,659
36	TXD059685339	MCKEE PLANTS/DIAMOND SHAMROCK	SUNRAY,TX	1,538,094
37	WAD009250366	BP OIL COMPANY FERNDALE REFINE	FERNDALE,WA	1,520,446
38	ILD005092572	NALCO CHEMICAL CO	BEDFORD PARK,IL	1,426,092
39	IDD070929518	FMC CORPORATION POCATELLO	POCATELLO,ID	1,286,725
40	TX6170022770	LTV AEROSPACE & DEFENSE CO.	DALLAS,TX	1,258,442
41	TXD980626014	REXENE PRODUCTS COMPANY	ODESSA,TX	1,223,866
42	TXD008079642	DU PONT SABINE RIVER WORKS	ORANGE,TX	1,218,643
43	KSD007482029	VULCAN MATERIALS COMPANY	WICHITA,KS	1,214,827
44	TXD008081101	E.I. DU PONT DE NEMOURS & CO., INC.	NEDERLAND,TX	1,195,572
45	WAD041337130	BOEING - AUBURN	AUBURN,WA	1,162,451
46	TXD005942438	AMOCO CHEMICAL COMPANY - PLANT B SITE	TEXAS CITY,TX	1,161,508
47	LAD008086506	PPG INDUSTRIES, INC.	WESTLAKE,LA	1,063,533
48	CAD008354052	MOBIL OIL CORP	TORRANCE,CA	890,150
49 50	TXD041515420	SEADRIFT/UNION CARBIDE CHEM & PLASTICS	N. SEADRIFT,TX	844,248
90	OKD000829440	ZINC CORPORATION OF AMERICA	BARTLESVILLE,OK	803,218
		TOTAL		248,619,287

Notes:

- Column may not sum due to rounding. CBI data are excluded from this exhibit.



Generator Quantity Range (In tons)

A generator is a large quantity generator if it met the following federal criteria:

- o The generator generated in any single month 1,000 kg (2,200 lbs. or 1.1 tons) or more RCRA hazardous waste; or
- The generator generated in any single month, or accumulated at any time, 1
 kg (2.2 lbs) of RCRA acute hazardous waste; or
- The generator generated or accumulated at any time more than 100 kg (220 lbs) of spill cleanup material contaminated with RCRA acute hazardous.

According to these criteria, a generator that reports more than 13.2 tons (12 months x 1.1 tons) of annual hazardous waste generation must be a large quantity generator, because the generator must have generated at least 1.1 tons in at least one month. A generator that reports less than 13.2 tons in a year may not be a large quantity generator, because they may have generated less than 1.1 tons in every month. As shown in Exhibit 1.8, there are 14,190 generators that generated more than 13.2 tons in 1991, 8,086 that generated between 1.1 and 13.2 tons, and 1,150 that generated less than 1.1 tons. Most large quantity generators (9,091) generated between 13.2 and 113.2 tons, which is the range displayed in Exhibit 1.8 with the highest distribution. The range with the second highest distribution is that between 1.1 and 13.2 tons, with 8,086 generators. Together, these two ranges account for 73% of the total number of large quantity generators.

Hazardous waste is distinguished according to its designation as a characteristic or listed waste. Characteristic and listed wastes are specifically described in 40 CFR⁶ 261, and a list of waste codes is provided as Appendix B of this report.

The term "characteristic waste" refers to any solid waste that exhibits a characteristic of ignitability (D001), corrosivity (D002), or reactivity (D003), or that contains toxic constituents in excess of federal standards (D004 - D045).

⁶Code of Federal Regulations.

An ignitable waste is a solid waste that exhibits any of the following properties:

- o A liquid, except aqueous solutions containing less than 24 percent alcohol, that has a flash point less than 60 degrees Celsius (140 degrees Fahrenheit).
- o A nonliquid capable, under normal conditions, of spontaneous and sustained combustion.
- An ignitable compressed gas per Department of Transportation (DOT) regulations.
- o An oxidizer per DOT regulation.

A corrosive waste is a waste that exhibits the following properties:

- o An aqueous material with pH less than or equal to 2 or greater than or equal to 12.5.
- A liquid that corrodes steel at a rate greater than 1/4 inch per year at a temperature of 55 degrees Celsius (130 degrees Fahrenheit).

A reactive waste is a waste that exhibits the following properties:

- o Normally unstable and reacts violently without detonating.
- o Reacts violently with water.
- o Forms an explosive mixture with water.
- o Contains cyanide or sulfide and generates toxic gases, vapors, or fumes at a pH of between 2 and 12.5.
- o Capable of detonation if heated under confinement or subjected to strong initiating source.
- o Capable of detonation at standard temperature and pressure.
- o Listed by DOT as Class A or B explosive.

Wastes with the toxicity characteristic are identified through failure of the Toxicity Characteristic Leaching Procedure Test (TCLP). A solid waste exhibits the characteristic if, using the TCLP or an equivalent method, the extract from a representative sample of the waste contains any of the contaminants D005-D043 at a concentration equal to or greater than the value described in 40 CFR 261.24.

The term "listed waste" (F, K, P, and U codes) refers to waste that EPA has identified as

hazardous as a result of its investigations of particular industries or because EPA has specifically recognized a commercial chemical waste's toxicity. A solid waste is hazardous if it is named on one of three lists developed by EPA:

- 1) Non-specific source wastes ('F' wastes)--These are generic wastes, commonly produced by manufacturing and industrial processes. Examples from this list include spent halogenated solvents used in degreasing and wastewater treatment sludge from electroplating processes as well as dioxin wastes, most of which are acutely hazardous wastes due to the danger they present to human health and the environment.
- 2) Specific source wastes ('K' wastes)--This list consists of wastes from specifically identified industries such as wood preserving, petroleum refining, and organic chemical manufacturing. These wastes typically include sludges, still bottoms, wastewaters, spent catalysts, and residues, e.g., wastewater treatment sludge from pigment production.
- 3) Commercial chemical products ('P' and 'U' wastes)--The third list consists of specific commercial chemical products, or manufacturing chemical intermediates. This list includes chemicals such as chloroform and creosote, acids such as sulfuric acid and hydrochloric acid, and pesticides such as DDT and kepone. The 'U' wastes include toxic chemicals while 'P' waste listings are reserved for acutely toxic chemicals.

Exhibit 1.9 shows the overall portions of the national generation total of 306 million tons that were characteristic, listed, or a mixture of characteristic and listed wastes. Characteristic wastes account for 72.0% (220 million tons) of the national total, listed wastes account for 8.2% (25 million tons), and mixtures of the two account for 19.4% (59 million tons). The unknown category in Exhibit 1.9 represents hazardous waste reported as lab packs rather than with RCRA codes. In 1991, there were 187 million tons more characteristic waste than were generated in 1989 (33 million tons). This large increase in characteristic wastes in 1991 may be the result of the Toxicity Characteristic (TC) Rule promulgated in 1990. The TC Rule added 25 new characteristic waste codes (D018-D043) and required more stringent analytical tests for the presence of characteristic toxic constituents in waste.

As shown in Exhibit 1.10, 137 million tons of waste were identified by these 25 new waste codes, indicating that, at a minimum, the TC Rule captured 137 million tons of previously unregulated wastes. Exhibit 1.11 shows that an additional 17 million tons of waste were described with D018-D043 and other characteristic codes. Another 8 million tons were described by D018-D043 and other listed waste codes. While it is not possible to calculate exactly the amount of waste that was newly regulated by the TC Rule and how much was regulated prior to 1990, as much as 162 million tons may have been

captured by new toxicity characteristic waste listings.

In conclusion, the amount of hazardous waste generated in 1991 was between 144 and 169 million tons without these newly regulated wastes. This represents a decrease of 29 to 54 million tons from the amount of waste generated in 1989.

Exhibit 1.9 Percentages of National Generation Total That Were Characteristic, Lieted, and Characteristic and Lieted Mixtures

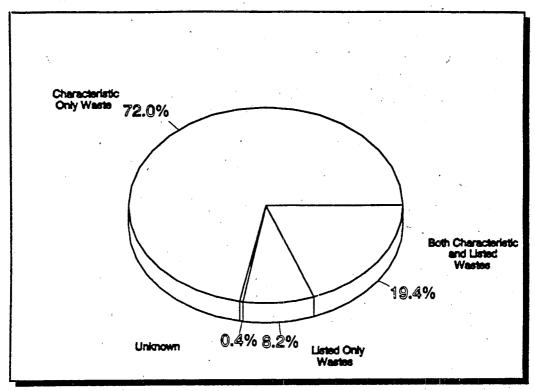


Exhibit 1.10 Tons of Generated Wastes that were Only Characteristic Wastes, Only Listed Wastes, or Both Characteristic and Listed Wastes, 1991

ONLY CHARACTERISTIC WASTES		ONLY LISTED WASTES		BOTH A CHARACTERISTIC AND A LISTED WASTE	
ONLY IGNITABLE	829,320	ONLY F WASTES	16,887,314		
ONLY CORROSIVE	33,455,163	ONLY K WASTES	4,455,917		
ONLY REACTIVE	3,430,789	ONLY P WASTES	27,937		
ONLY D004-17(TOXIC)	19,994,063	ONLY U WASTES	458,903		
ONLY D018-43(TOXIC)	137,310,192				
WASTES WITH MULTIPLE CHARACTERISTICS	25,161,951	WASTES MULITPLY LISTED	3,253,731		
TOTAL	220,181,478	TOTAL	25,083,803	TOTAL	59,418,636

Note: All quantities are in tons.

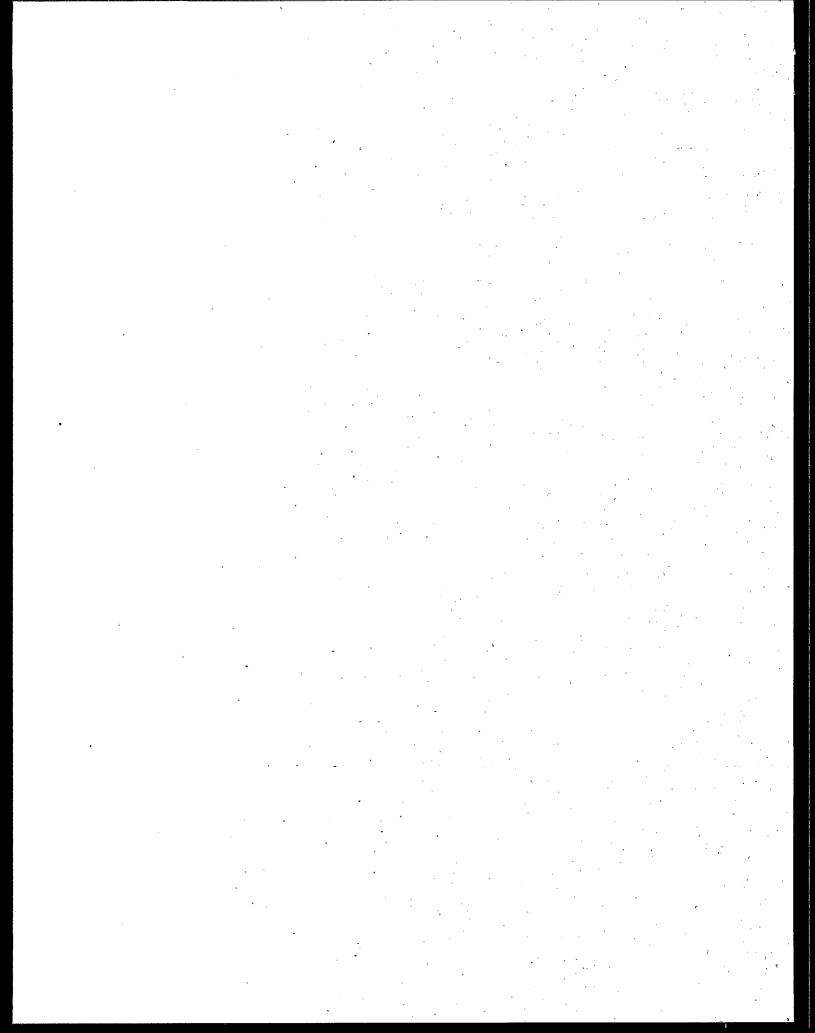
Exhibit 1.11 Tons of Generated Wastes with Multiple Characteristics, that were Multiply Listed, or Both in 1991

ONLY CHARACTERISTIC WASTES BUT WITH MULTIPLE CHARACTERISTICS		ONLY LISTED WASTES BUT MULTIPLY LISTED		BOTH CHARACTERISTIC AND LISTED WASTES ¹	
lgnitable	5,517,874			Any Listed Waste also Ignitable	7,521,185
Corrosive	20,070,179			Any Listed Waste also Corrosive	47,293,784
Reactive	6,135,790			Any Listed Waste also Reactive	2,629,854
D004-17 (Toxic)	11,223,254			Any Listed Waste also D004-17(Toxic)	38,682,794
D018-43 (Toxic)	16,894,666			Any Listed Waste also DO18-43(Toxic)	7,820,153
		F Wastes	1,295,214	F Wastes with any Characteristic	52,258,320
		K Wastes	3,139,435	K Wastes with any Characteristic	42,157,050
		P Wastes	2,612,585	P Wastes with any Characteristic	4,719,595
		U Wastes	1,555,384	U Wastes with any Characteristic	8,196,331
TOTAL ²	25,161,951	TOTAL	3,253,731	TOTAL	59,418,636

¹ Listed wastes with ignitable, corrosive, reactive, D004-17(Toxic), or D018-43(Toxic) characteristics respectively may have other characteristics as well. Similarly, characteristic wastes that are also F, K, P, or U listed wastes respectively may be other listed wastes as well.

² Columns do not sum to total because wastes may be included in more than one category.

Note: All quantities are in tons.



2.0 WASTE MANAGEMENT

This section presents a series of exhibits describing the management of RCRA hazardous waste. EPA collected hazardous waste management information from any facility that operated treatment, storage, or disposal (TSD) units subject to RCRA permitting standards in 1991. These facilities are referred to throughout this report as TSDs. Wastes managed in treatment systems exempt from RCRA permitting requirements, such as those subject to Clean Water Act or Safe Drinking Water Act permitting requirements, were not included in this report.

Exhibits 2.1, 2.2, and 2.3 present the quantity of RCRA hazardous waste managed and the number of TSDs in the United States and in each EPA region. Overall, a total of 3,862 facilities reported that they managed hazardous waste in TSD units subject to RCRA permitting standards. This represents an 800 facility increase in the number of TSDs in 1989. Storage facilities account for 2,659 of these facilities, leaving 1,203 facilities that actually treated or disposed of 294 million tons of hazardous waste; which is a 98 million ton increase over 1989 quantities.

Region 6 managed the largest amount of waste (137 million tons, or 47%), while ranking fifth in the number of TSDs (352). Region 2 had the highest number of TSDs (924) and ranked third in the amount of waste managed. Region 8 had the smallest number of TSDs and managed the least waste.

Exhibit 2.1 Number and Percentage of RCRA TSD Facilities and RCRA Hazardous Waste Quantity Managed, by EPA Region, 1991

	HAZARDOUS WASTE QUANTITY ¹		TSD FACILITIES	
EPA REGION	TONS MANAGED	PERCENTAGE	NUMBER	PERCENTAGE
1	390,337	0.1	194	5.0
2	51,033,570	17.3	924	23.9
3	9,105,896	3.1	265	6.9
4	11,847,776	4.0	511	13.2
5	53,068,621	18.0	760	19.7
6	137,423,123	46.7	352	9.1
7	4,009,857	1.4	174	4.5
8	1,440,228	0.5	88	2.3
9	12,308,044	4.2	467	12.1
10	13,809,857	4.7	127	3.3
TOTAL	294,437,307	100.0	3,862	100.0

Exhibit 2.2 Number and Percentage of RCRA TSD Facilities and RCRA Hazardous Waste Quantity Managed, by Management Quantity, 1991

	HAZARDOUS WA	ASTE QUANTITY ¹	TSD FACILITIES	
EPA REGION	TONS MANAGED	PERCENTAGE	NUMBER	PERCENTAGE
6	137,423,123	46.7	352	9.1
5	53,068,621	18.0	760	19.7
2	51,033,570	17.3	924	23.9
10	13,809,857	4.7	127	3.3
9	12,308,044	4.2	467	12.1
4	11,847,776	4.0	511	13.2
3	9,105,896	3,1	265	6.9
7	4,009,857	1.4	174	4.5
8	1,440,228	0.5	88	2.3
1	390,337	0.1	194	5.0
TOTAL	294,437,307	100.0	3,862	100.0

¹Quantity managed only by storage is excluded.

Exhibit 2.3 Number and Percentage of RCRA TSD Facilities and RCRA Hazardous Waste Quantity Managed in Each EPA Region, by Highest Number of TSD Facilities, 1991

	TSD FACILITIES		HAZARDOUS WASTE QUANTITY1	
EPA REGION	NUMBER	PERCENTAGE	TONS MANAGED	PERCENTAGE
2	924	23.9	51,033,570	17.3
5	760	19.7	53,068,621	18.0
4	511	13.2	11,847,776	4.0
9	467	12.1	12,308,044	4:2
6	352	9.1	137,423,123	46.7
3	[′] 265	6.9	9,105,896	3.1
1	194	5.0	390,337	0.1
7	174	4.5	4,009,857	1.4
10	127	3.3	13,809,857	4.7
8	88	2.3	1,440,228	0.5
TOTAL	3,862	100.0	294,437,307	100.0

¹Quantity managed only by storage is excluded.

Exhibits 2.4, 2.5, and 2.6 present the quantity of RCRA hazardous waste managed and the number of TSDs in each state. Texas managed the largest amount of waste (104 million tons), followed by Michigan (32 million tons), Louisiana (32 million tons), and New Jersey (30 million tons). New Jersey reported the most TSDs (781), followed by California (409), Illinois (217), and Texas (206). There were no facilities in the District of Columbia, Guam, New Hampshire, South Dakota, and Vermont that reported treating or disposing waste in units subject to RCA permitting standards, although these states did have facilities that reported operating permitted storage facilities.

Exhibit 2.7 presents the 50 largest hazardous waste management facilities in the United States. Together, these TSDs accounted for more than 80% of the national management total. The Dow Chemical Company in Midland, Michigan was the largest TSD, managing 30 million tons of waste, followed by Dupont Chambers Works in Deepwater, New Jersey, and Amoco Oil Company Refinery in Texas City, Texas. A total of 22 of the 50 largest TSDs were in Texas.

Exhibit 2.8 shows that wastewater management¹ (i.e., management in aqueous treatment units, neutralization tanks, underground injection wells, or other wastewater treatment systems) accounts for 97% of the national management total. Because most management is wastewater management, it can be inferred that most waste is waste water.

¹Wastewater management is the management method described by the following BRS system type codes: M071-079, M081-085, M089, M091-094, M099, M121-125, M129, and M134. See Appendix A for further information.

Quantity of RCRA Hazardous Waste Managed and Number of TSDs, by State, 1991 Exhibit 2.4

ALABAMA ALASKA ALASKA ALASKA ALASKA ARIZONIA BERNANSAS BERNANSSAS BERNANSSAS BERNA	TSD FACILITIES		
ALASKA ARIZONA	CENTAGE		
ARIZONA ARKANSAS ARKANSAS 21 757,956 ARKANSAS 21 757,956 ARKANSAS 21 757,956 ARKANSAS ARKANSA	1.4		
ARKANSAS CALIFORNIA 6 12,130,053 4.1 2 409 COLORADO CONNECTICUT DELAWARE DISTRICT OF COLUMBIA FLORIDA GEORGIA GUAM HAWAII IDAHO IILINOIS 7 12,083,019 4.1 3 7.7 1.00,055 0.4 21 1.1 1.00,055 0.4 21 5.9 GEORGIA GUAM HAWAII IDAHO 13 3,178,455 1.1 42 1.1 IILINOIS 7 12,083,019 4.1 3 2.17 IILINOIS 7 12,083,019 4.1 3 2.17 IILINOIS 10 0.0 44 9 IILINOIS 10 0.0 34 IILINOIS IILINOIS 10 0.0 34 IILINOIS IILINOIS 10 0.0 34 IILINOIS IILINOIS IILINOIS 10 0.0 34 IILINOIS IILINOIS 10 0.0 34 IILINOIS IILINOIS 10 0.0 34 IILINOIS IILINOIS IILINOIS 10 0.0 34 IILINOIS IILINOIS IILINOIS 10 0.0 34 IILINOIS IILINOIS	1.1		
CALIFORNIA CALIFORNIA COLORADO CONNECTICUT CONNECT CONNECTICUT CONNECTICUT CONNECTICUT CONNECTICUT CONNECTICUT CON	0.9		
COLORADO CONNECTICUT COLORADO COLORADO CONNECTICUT COLORADO COL	0.6		
CONNECTICUT DELAWARE DISTRICT OF COLUMBIA FLORIDA GEORGIA GUAM 51 0 0 0.0 51 2 FLORIDA GUAM 51 0 0 0.0 51 2 HAWAII 10AHO 13 3,178,455 1.1 42 11 ILLINOIS 7 12,083,019 4.1 3 217 INDIANA 16 1,405,359 0.5 8 102 IOWA 37 83,336 0.0 34 KANSAS 12 3,310,784 1.1 27 41 KENTUCKY 28 300,060 0.1 32 32 LOUSISIANA 3 31,589,603 10.7 19 63 MAINE 47 1,054 0.0 12 79 MASSACHUSETTS 42 9,433 0.0 26 43 MICHIGAN 11 19,084 0.0 12 79 MASSACHUSETTS 42 9,433 0.0 26 43 MICHIGAN 2 31,922,898 10.8 6 152 MINNESOTA MINNESOTA 11 5,565,626 1,9 0 MISSISSIPPI 9 8,013,068 2.7 22 56 MISSISSISPI 9 8,013,068 2.7 22 56 MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW HAMPSHIRE 51 0 0 0.0 51 2 7 109 NORTH DAKOTA 22 18,320,124 62 7 109 NORTH DAKOTA 22 683,825 0.2 17 18 18 0.0 11 18 0 18 0 18 0 19 18 0 18 0 18 0 18	10.6		
DELAWARE 45 2,273 0.0 42 11 DISTRICT OF COLUMBIA 51 0 0.0 51 2 FLORIDA 32 195,490 0.1 15 72 GEORGIA 18 1,103,055 0.4 21 59 GUAM 51 0 0.0 51 2 HAWAII 46 1,428 0.0 44 9 IDAHO 13 3,178,455 1.1 42 11 ILLINOIS 7 12,083,019 4.1 3 217 INDIANA 16 1,405,359 0.5 8 102 IOWA 37 83,336 0.0 34 30 KANSAS 12 3,310,784 1.1 27 41 KENTUCKY 28 300,060 0.1 32 32 LOUISIANA 3 31,589,603 10.7 19 63 MASSACHUSETTS 42 9,433 <t< td=""><td>1.0</td></t<>	1.0		
DISTRICT OF COLUMBIA 51	2.0		
FLORIDA 32 195,490 0.1 15 72	0.3		
GEORGIA GEORGI	0.1		
GUAM 51 0 0.0 51 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.9		
GUAM	1.5		
IDAHO	0.1		
IDAHO	0.2		
ILLINOIS 7	0.3		
INDIANA 16	5.6		
IOWA	2.6		
KANSAS 12 3,310,784 1.1 27 41 KENTUCKY 28 300,060 0.1 32 32 LOUISIANA 3 31,589,603 10.7 19 63 MAINE 47 1,054 0.0 24 52 MARYLAND 41 19,084 0.0 12 79 MASSACHUSETTS 42 9,433 0.0 26 43 MICHIGAN 2 31,922,898 10.8 6 152 MINNESOTA 11 5,565,626 1.9 20 60 MISSISSIPPI 9 8,013,068 2.7 22 56 MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW HAMPSHIRE 51 0	0.8		
KENTUCKY 28 300,060 0.1 32 32 LOUISIANA 3 31,589,603 10.7 19 63 MAINE 47 1,054 0.0 24 52 MARYLAND 41 19,084 0.0 12 79 MASSACHUSETTS 42 9,433 0.0 26 43 MICHIGAN 2 31,922,898 10.8 6 152 MINNESOTA 11 5,565,626 1.9 20 60 MISSISSIPPI 9 8,013,068 2.7 22 56 MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW JERSEY 4 29,662,220 10.1 1 781 NEW JERSEY 4 29,66	1.1		
LOUISIANA 3 31,589,603 10.7 19 63 63 63 642 62 63 63 63 64 64 64 64 64	0.8		
MAINE 47 1,054 0.0 24 52 MARYLAND 41 19,084 0.0 12 79 MASSACHUSETTS 42 9,433 0.0 26 43 MICHIGAN 2 31,922,898 10.8 6 152 MINNESOTA 11 5,565,626 1.9 20 60 MISSISSIPPI 9 8,013,068 2.7 22 56 MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW HAMPSHIRE 51 0 0.0 51 2 NEW JERSEY 4 29,662,220 10.1 1 781 NEW MEXICO 33 148,932 0.1 38 20 NEW TH CAROLINA 30 252	1.6		
MARYLAND 41 19,084 0.0 12 79 MASSACHUSETTS 42 9,433 0.0 26 43 MICHIGAN 2 31,922,898 10.8 6 152 MINNESOTA 11 5,565,626 1.9 20 60 MISSISSIPPI 9 8,013,068 2.7 22 56 MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW HAMPSHIRE 51 0 0.0 51 2 NEW JERSEY 4 29,662,220 10,1 1 781 NEW YORK 5 18,320,124 6.2 7 109 NORTH CAROLINA 30 252,993 0.1 14 74 NORTH DAKOTA 22	1.3		
MASSACHUSETTS 42 9,433 0.0 26 43 MICHIGAN 2 31,922,898 10.8 6 152 MINNESOTA 11 5,565,626 1.9 20 60 MISSISSIPPI 9 8,013,068 2.7 22 56 MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW HAMPSHIRE 51 0 0.0 51 2 NEW JERSEY 4 29,662,220 10.1 1 781 NEW YORK 5 18,320,124 6.2 7 109 NORTH CAROLINA 30 252,993 0.1 14 74 NORTH DAKOTA 22 683,825 0.2 47 6 OHIO 15 <td< td=""><td>2.0</td></td<>	2.0		
MICHIGAN 2 31,922,898 10.8 6 152 MINNESOTA 11 5,565,626 1.9 20 60 MISSISSIPPI 9 8,013,068 2.7 22 56 MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW HAMPSHIRE 51 0 0.0 51 2 NEW JERSEY 4 29,662,220 10.1 1 781 NEW YORK 5 18,320,124 6.2 7 109 NORTH CAROLINA 30 252,993 0.1 14 74 NORTH DAKOTA 22 683,825 0.2 47 6 OHIO 15 1,870,654 0.6 5 185 OKLAHOMA 19	1.1		
MINNESOTA 11 5,565,626 1.9 20 60 MISSISSIPPI 9 8,013,068 2.7 22 56 MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW HAMPSHIRE 51 0 0.0 51 2 NEW JERSEY 4 29,662,220 10.1 1 781 NEW YORK 5 18,320,124 6.2 7 109 NORTH CAROLINA 30 252,993 0.1 14 74 NORTH DAKOTA 22 683,825 0.2 47 6 OHIO 15 1,870,654 0.6 5 185 OKLAHOMA 19 980,618 0.3 30 39 OREGON 34 133,0	3.9		
MISSISSIPPI 9 8,013,068 2.7 22 56 MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW HAMPSHIRE 51 0 0.0 51 2 NEW JERSEY 4 29,662,220 10.1 1 781 NEW MEXICO 33 148,932 0.1 38 20 NEW YORK 5 18,320,124 6.2 7 109 NORTH CAROLINA 30 252,993 0.1 14 74 NORTH DAKOTA 22 683,825 0.2 47 6 OHIO 15 1,870,654 0.6 5 185 OKLAHOMA 19 980,618 0.3 30 39 OREGON 34 133,02	1.6		
MISSOURI 24 589,673 0.2 10 87 MONTANA 44 3,270 0.0 44 9 NEBRASKA 39 26,065 0.0 39 16 NEVADA 38 52,784 0.0 41 12 NEW HAMPSHIRE 51 0 0.0 51 2 NEW JERSEY 4 29,662,220 10.1 1 781 NEW MEXICO 33 148,932 0.1 38 20 NEW YORK 5 18,320,124 6.2 7 109 NORTH CAROLINA 30 252,993 0.1 14 74 NORTH DAKOTA 22 683,825 0.2 47 6 OHIO 15 1,870,654 0.6 5 185 OKLAHOMA 19 980,618 0.3 30 39 OREGON 34 133,021 0.0 44 9 PENNSYLVANIA 17 1,405,2	1.5		
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NEW JERSEY 4 29,662,220 10.1 1 781 NEW MEXICO 33 148,932 0.1 38 20 NEW YORK 5 18,320,124 6.2 7 109 NORTH CAROLINA 30 252,993 0.1 14 74 NORTH DAKOTA 22 683,825 0.2 47 6 OHIO 15 1,870,654 0.6 5 185 OKLAHOMA 19 980,618 0.3 30 39 OREGON 34 133,021 0.0 44 9 PENNSYLVANIA 17 1,405,204 0.5 11 80 PUERTO RICO 14 3,051,006 1.0 32 32 RHODE ISLAND 43 8,642 0.0 40 15	0.1		
NEW MEXICO 33 148,932 0.1 38 20 NEW YORK 5 18,320,124 6.2 7 109 NORTH CAROLINA 30 252,993 0.1 14 74 NORTH DAKOTA 22 683,825 0.2 47 6 OHIO 15 1,870,654 0.6 5 185 OKLAHOMA 19 980,618 0.3 30 39 OREGON 34 133,021 0.0 44 9 PENNSYLVANIA 17 1,405,204 0.5 11 80 PUERTO RICO 14 3,051,006 1.0 32 32 RHODE ISLAND 43 8,642 0.0 40 15	20.2		
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NORTH DAKOTA 22 683,825 0.2 47 6 OHIO 15 1,870,654 0.6 5 185 OKLAHOMA 19 980,618 0.3 30 39 OREGON 34 133,021 0.0 44 9 PENNSYLVANIA 17 1,405,204 0.5 11 80 PUERTO RICO 14 3,051,006 1.0 32 32 RHODE ISLAND 43 8,642 0.0 40 15	1.9		
OHIO 15 1,870,654 0.6 5 185 OKLAHOMA 19 980,618 0.3 30 39 OREGON 34 133,021 0.0 44 9 PENNSYLVANIA 17 1,405,204 0.5 11 80 PUERTO RICO 14 3,051,006 1.0 32 32 RHODE ISLAND 43 8,642 0.0 40 15	0.2		
OKLAHOMA 19 980,618 0.3 30 39 OREGON 34 133,021 0.0 44 9 PENNSYLVANIA 17 1,405,204 0.5 11 80 PUERTO RICO 14 3,051,006 1.0 32 32 RHODE ISLAND 43 8,642 0.0 40 15	4.8		
OREGON 34 133,021 0.0 44 9 PENNSYLVANIA 17 1,405,204 0.5 11 80 PUERTO RICO 14 3,051,006 1.0 32 32 RHODE ISLAND 43 8,642 0.0 40 15	1.0		
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I MIODE IDEATED	0.8		
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1 300 H CANOLINA 1 20 1 020, 100 1 1 1 1	1.7		
SOUTH DAKOTA 51 0 0.0 50 3	0.1		
TENNESSEE 20 778,652 0.3 9 100	2.6		
TEXAS 1 103,946,014 35.3 4 206	5.3		
TRUST TERRITORIES 48 887 0.0 51 2	0.1		
UTAH 29 284,846 0.1 36 26 -	0.7		
VERMONT 51 0 0.0 48 5	0.1		
VIRGIN ISLANDS 49 219 0.0 51 2	0.1		
VIRGINIA 35 126,998 0.0 16 66	1.7		
WASHINGTON 8 10,477,204 3.6 16 66	1.7		
WEST VIRGINIA 10 7,552,337 2.6 35 27	0.7		
WISCONSIN 31 221,065 0.1 25 44	1.1		
WYOMING 50 119 0.0 49 4	0.1		
	100.0		

Ouantity managed only by storage is excluded.

Note: Columns may not sum due to rounding.

Exhibit 2.5 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Managed, and Number of TSDs, 1991

1991	RCR/	HAZARDOUS WAST	E QUANTITY ¹	TSD FACILITIES		
	<u> </u>	TONS	1		7	
STATE	RANK	MANAGED	PERCENTAGE	RANK	NUMBER	PERCENTAGE
TEXAS	1	103,946,014	35.3	4	206	5.3
MICHIGAN	2	31,922,898	10.8	6	152	3.9
LOUISIANA	3	31,589,603	10.7	19	63	1.6
NEW JERSEY	4	29,662,220	10.1	1	781	20.2
NEW YORK	5	18,320,124	6.2	7	109	2.8
CALIFORNIA	6	12,130,053	4.1	2	409	10.6
ILLINOIS	7	12,083,019	4.1	3	217	5.6
WASHINGTON	8	10,477,204	3.6	16	66	1.7
MISSISSIPPI	9	8,013,068	2.7	22 .	56	1.5
WEST VIRGINIA	10	7,552,337	2.6	35	27	0.7
MINNESOTA	11	5,565,626	1.9	20	60	1.6
KANSAS	12	3,310,784	1.1	27	41	1.1
IDAHO	13	3,178,455	1.1	42] 11	0.3
PUERTO RICO	14	3,051,006	1.0	32	32	0.8
OHIO	15	1,870,654	0.6	5	185	4.8
INDIANA	16	1,405,359	0.5	8	102	2.6
PENNSYLVANIA	17	1,405,204	0.5	1.1	- 80	2.1
GEORGIA	18	1,103,055	0.4	21 .	59	1.5
OKLAHOMA	19	980,618	0.3	30	39	1.0
TENNESSEE ARKANSAS	20	778,652	, 0.3	9	100	2.6
	21	757,956	0.3	37	24	0.6
NORTH DAKOTA ALABAMA	22	683,825	0.2	47	6	0.2
MISSOURI	23	675,999	0.2	23	54	1.4
SOUTH CAROLINA	24 25	589,673	0.2	10	87	2.3
COLORADO	26	528,458	0.2	18	64	1.7
CONNECTICUT	27	468,167 371,208	0.2 0.1	29 13	40	1.0
KENTUCKY	28	300,060	0.1	32	77 32	2.0
UTAH	29	284,846	0.1	36	32 26	0.8 0.7
NORTH CAROLINA	30	252,993	0.1	14	74	1.9
WISCONSIN	31	221,065	0.1	25	44.	1.1
FLORIDA	32	195,490	0.1	15	72	1.9
NEW MEXICO	33	148,932	0.1	38	20	0.5
OREGON	34	133,021	0.0	44	9	0.2
VIRGINIA	35	126,998	0.0	16	66	1.7
ARIZONA	36	122,891	0.0	31	33	0.9
IOWA	37	83,336	0.0	. 34	. 30	0.8
NEVADA	38	52,784	0.0	41	12	0.3
NEBRASKA	39	26,065	0.0	39	16	0.4
ALASKA	40	21,178	0.0	27	41	1.1
MARYLAND	41	19,084	0.0	12	79	2.0
MASSACHUSETTS	42	9,433	0.0	26	43	1.1
RHODE ISLAND	43	8,642	0.0	40	15	0.4
MONTANA	44	3,270	. 0.0	44	9	0.2
DELAWARE	45	2,273	, 0.0	42	11	0.3
HAWAII	46	1,428	0.0	44	9	0.2
MAINE	47	1,054	0.0	24	52	1.3
TRUST TERRITORIES	48	887	0.0	51	. 2	0,1
VIRGIN ISLANDS	. 49	219	0.0	51	2	0.1
WYOMING	50	119	0.0	49	4	0.1
DISTRICT OF COLUMBIA	51	0	0.0	51	. 2	0.1
GUAM NEW HANDSHIPE	51	0	0.0	51	2	0.1
NEW HAMPSHIRE	51	0	0.0	. 51	2	0.1
SOUTH DAKOTA VERMONT	51 51	0	0.0	50	3	0.1
	31		0.0	48	5 .	0.1
TOTAL		294,437,307	100.0		3,862	100.0

Quantity managed only by storage is excluded.

Rank Ordering of States Based on Number of TSD Facilities, and Quantity of Hazardous Waste Managed, 1991 Exhibit 2.6

1991		TSD FACIL	ITIES I	BCRA	IAZARDOUS WASTE QUANTITY		
		150 FACIL	ITIES	RONA		COAITIII	
STATE	RANK	NUMBER	PERCENTAGE	RANK	TONS MANAGED	PERCENTAGE	
NEW JERSEY	1	781	20.2	4	29,662,220	10.1	
CALIFORNIA	2	409	10.6	6	12,130,053	4.1	
ILLINOIS	3	217	5.6	7	12,083,019	4.1	
TEXAS	4	206	5.3	1	103,946,014	35.3	
OHIO	5	185	4.8	15	1,870,654	0.6	
MICHIGAN	6	152	3.9	2	31,922,898	10.8	
NEW YORK	7	109	2.8	5	18,320,124	6.2	
INDIANA	8	102	2.6	. 16	1,405,359	0.5	
TENNESSEE	9	100	2.6	20	778,652	0.3	
MISSOURI	10	87	2.3	24	589,673	0.2	
PENNSYLVANIA	11	80	2.1	17	1,405,204	0.5	
MARYLAND	12	79	2.0	41	19,084	0.0 0.1	
CONNECTICUT	13	77 :	2.0	27	371,208	0.1	
NORTH CAROLINA	14	74	1.9	30	252,993 105 490	0.1	
FLORIDA	15	72	1.9	32	195,490	0.1	
VIRGINIA	16	66 66	1.7	35	126,998	3.6	
WASHINGTON	16	66	1.7	8 25	10,477,204	0.2	
SOUTH CAROLINA	- 18	:64	1.7	∠5 3	528,458 31,589,603	10.7	
LOUISIANA	19	63	1.6	11	5,565,626	1.9	
MINNESOTA	20	60 59	1.6 1.5	18	1,103,055	0.4	
GEORGIA	21 22	59 56	1.5	9	8,013,068	2.7	
MISSISSIPPI	23	54	1.4	23	675,999	0.2	
ALABAMA MAINE	23 24	52	1.3	47	1,054	0.0	
WISCONSIN	25	44	1.1	31	221,065	0.1	
MASSACHUSETTS	26	43	1.1	42	9,433	0.0	
ALASKA	27	41	i.i	40	21,178	0.0	
KANSAS	27	41	1.1	12	3,310,784	1.1	
COLORADO	29	40	1.0	26	468,167	0.2	
OKLAHOMA	30	39	1.0	19	980,618	0.3	
ARIZONA	` 31	33	0.9	36	122,891	0.0	
KENTUCKY	32	32	0.8	28	300,060	0.1	
PUERTO RICO	32	32	0.8	14	3,051,006	1.0	
IOWA	34	30	0.8	37	83,336	0.0	
WEST VIRGINIA	35	27	0.7	10	7,552,337	2.6	
UTAH	36	26	0.7	29	284,846	0.1	
ARKANSAS	37	24	0.6	21	757,956	0.3	
NEW MEXICO	38	20	0.5	33	148,932	0.1	
NEBRASKA	39	16	0.4	.39	26,065	0.0	
RHODE ISLAND	40	15	0.4	43 38	8,642 52.794	0.0	
NEVADA	41	12 11	0.3 0.3	45	52,784 2,273	0.0	
DELAWARE	42 42	11	0.3	13	3,178,455	1.1	
IDAHO	44	'5	0.3	46	1,428	0.0	
HAWAII MONTANA	44	9	0.2	44	3,270	0.0	
OREGON	44	9	0.2	34	133,021	0.0	
NORTH DAKOTA	47	6	0.2	22	683,825	0.2	
VERMONT	48	5	0.1	51	0 '	0.0	
WYOMING	49	4	0.1	· 50	119	0.0	
SOUTH DAKOTA	50	3	0.1	51	0	0.0	
DISTRICT OF COLUMBIA	.51	2	0.1	51	0	0.0	
GUAM	51	2	0.1	51	0.	0.0	
NEW HAMPSHIRE	51.	2	0.1	51	0	0.0	
TRUST TERRITORIES	. 51	2	0.1	48	887	0.0	
VIRGIN ISLANDS	51	2	0.1	49	219	0.0	
TOTAL		3,862	100.0	<u> </u>	294,437,307	100.0	

Quantity managed only by storage is excluded.

Note: Columns may not sum due to rounding.

Exhibit 2.7 Fifty Largest RCRA Hazardous Waste Managers in the U.S., 1991

				· · ·
RANK	EPA ID	NAME	CITY	TONS MANAGED ¹
1	MID000724724	THE DOW CHEMICAL COMPANY	MIDLAND,MI	30,165,227
2	NJD002385730	E.I. DUPONT-CHAMBERS WORKS	DEEPWATER,NJ	29,457,126
3	TXD008080533	AMOCO OIL COMPANY REFINERY	TEXAS CITY,TX	28,677,233
4	LAD008080350	CITGO PETROLEUM CORPORATION	LAKE CHARLES,LA	13,546,246
5	TXD067285973	SHELL OIL COMPANY	DEER PARK,TX	10,603,805
6	ILD080012305	SHELL OIL CO	ROXANA,IL	9,449,079
7	TXD050309012	AMOCO CHEMICAL COMPANY - CHOCOLATE BAYOU	ALVIN,TX	8,243,359
8	TXD048210645	PHILLIPS PETROLEUM SWEENY COMPLEX	OLD OCEAN,TX	7,653,408
9	CAD009164021	SHELL OIL CO/MARTINEZ MFG COMP	MARTINEZ,CA	7,299,195
10	WVD005005509	RHONE-POULENC AG COMPANY	INSTITUTE,WV	6,655,087
11	MSD054179403	CHEVRON	PASCAGOULA,MS	6,586,654
12	LAD041581422	UNION CARBIDE CHEMICALS & PLASTICS COMP.	TAFT,LA	6,512,298
13	TXD007330202	TEXAS EASTMAN DIVISION, EASTMAN CHEMICAL	LONGVIEW,TX	5,439,874
14	LAD056024391	BP OIL COMPANY - ALLIANCE REFINERY	BELLE CHASSE,LA	5,340,881
15	TXD000836486	ISK BIOTECH CORP./GREENS BAYOU PLANT	HOUSTON,TX	5,265,451
16	WAD069548154	ARCO PRODUCTS CO	FERNDALE, WA	5,110,162
17	TXD008123317	DUPONT DE NEMOURS & CO.	VICTORIA,TX	4,052,584
18	WAD009275082	SHELL OIL COMPANY	ANACORTES,WA	3,340,005
19	TXD008092793	DOW CHEMICAL U.S.A.	FREEPORT,TX	3,232,841
20	TXD051161990	CHAMPLIN REFINING AND CHEMICALS, INC.	CORPUS CHRISTI,TX	3,151,965
21	TXD008079527	STERLING CHEMICALS, INC.	TEXAS CITY,TX	3,110,763
22	TXD066349770	TYLER PIPE INDUSTRIES, INC.	SWAN.TX	2,927,104
23	TXD058275769	LYONDELL PETROCHEMICAL COMPANY	CHENNELVIEW,TX	2,897,018
24	MND006172969	3M COMPANY	COTTAGE GROVE,MN	2,674,604
25	MND006162820	ASHLAND PETROLEUM COMPANY	ST. PAUL PARK,MN	2,618,232
26	PRD090074071	PUERTO RICO SUN OIL CO.	YABUCOA,PR	2,509,552
27	TXD065096273	ROHM AND HAAS TEXAS, INC.	DEER PARK,TX	2,508,332
28	ID4890008952	U.S. DOE IDAHO NATIONAL ENGINEERING LABO	SCOVILLE,ID	2,373,894
29	TXD001700806	MONSANTO COMPANY	ALVIN,TX	2,358,379
30	TXD083472266	ARCO CHEMICAL COMPANY/CHANNELVIEW	CHANNELVIEW,TX	1,957,889
31	KSD087418695	TOTAL PETROLEUM INC	ARKANSAS CITY,KS	1,821,350
32	LAD008175390	AMERICAN CYANAMID	WAGGAMAN,LA	1,722,482
33	CAD041472986	NATIONAL SEMICONDUCTOR CORP	SANTA CLARA,CA	1,604,446
34	TXD059685339	MCKEE PLANTS/DIAMOND SHAMROCK	SUNRAY,TX	1,536,794
35	WAD009250366	BP OIL COMPANY FERNDALE REFINE	FERNDALE,WA	1,520,400
36	ILD005092572	NALCO CHEMICAL CO	BEDFORD PARK,IL	1,426,007
37	KSD007482029	VULCAN MATERIALS COMPANY	WICHITA,KS	
38	TX6170022770	LTV AEROSPACE & DEFENSE CO.	DALLAS,TX	1,338,061
39	TXD980626014	REXENE PRODUCTS COMPANY	ODESSA,TX	1,258,518
40	TXD008079642	DU PONT SABINE RIVER WORKS	ORANGE,TX	1,220,021
41	TXD008079842	E.I. DU PONT DE NEMOURS & CO., INC.	· · · · · · · · · · · · · · · · · · ·	1,219,373
42	LAD008086506	PPG INDUSTRIES, INC.	NEDERLAND,TX WESTLAKE,LA	1,192,495 1,048,664
43	TXD041515420	SEADRIFT/UNION CARBIDE CHEM & PLASTICS		
44	OKD000829440	ZINC CORPORATION OF AMERICA	N. SEADRIFT,TX BARTLESVILLE,OK	843,505 792,988
45	WVD004341491			, *
46	OHD042157644	AMERICAN CYANAMID COMPANY	WILLOW ISLAND,WV	759,970
47		BP CHEMICALS INC.	LIMA,OH	756,343
48	TXD000751172	B.P. CHEMICALS AMERICA, INC.	GREEN LAKE,TX	744,036
1	LAD981149750	UNION TEXAS PRODUCTS CORP.	GEISMAR,LA	729,853
49 50	NDD006175467	AMOCO OIL COMPANY-MANDAN REFINERY	MANDAN,ND	683,544
50	MSD096046792	DUPONT DELISLE PLANT	PASS CHRISTIAN,MS	675,947
		TOTAL		248,613,044

¹Quantity managed only by storage is excluded.

Exhibit 2.8 Quantity and Percentage of RCRA Hazardous Wastewater and Non-Wastewater Management in 1991

MANAGEMENT TYPE	MANAGEMENT TYPE TONS MANAGED ¹			
Wastewater	285,565,929	97.0		
Non-Wastewater	8,871,379	3.0		
TOTAL	294,437,307	100.0		

¹Quantity managed only by storage is excluded.

Exhibits 2.9, 2.10, and 2.11 present the quantity of RCRA hazardous waste managed according to individual treatment categories. The majority (76.3%) of the national total was managed in aqueous treatment units. 132 million tons were managed in aqueous organic treatment units, 19 million tons in aqueous inorganic treatment units, and 74 million tons in both inorganic and organic aqueous treatment units. (The 97% total wastewater figure presented in Exhibit 2.8 includes wastewaters that were managed in ways other than aqueous treatment systems, including neutralization and underground injection).

Land disposal accounted for 8.6% of the management total. Nationwide, 23 million tons of hazardous waste were disposed in underground injection wells, 1.7 million tons were disposed in landfills, 240 thousand tons were managed in surface impoundments, and 52 thousand tons were managed by land application (land farming).

Recovery operations accounted for 2.2% of the national management total. Facilities reported that 3.6 million tons were managed in solvent recovery units, 1.4 million tons were managed in fuel blending units, 1 million tons were managed in metals recovery units, and 480 thousand tons were recovered by other methods such as acid regeneration, waste oil recovery, and non-solvent organic recovery.

Thermal treatment accounted for 1.1% of the national management total. A total of 1.9 million tons were incinerated, while facilities reused 1.4 million tons as fuel in boilers or industrial furnaces.

Exhibit 2.9 Quantity of RCRA Hazardous Waste Managed, by Management Method, 1991

MANAGEMENT METHOD	SYSTEM TYPE CODE	TONS MANAGED ¹	PERCENTAGE OF QUANTITY ²³	NUMBER OF FACILITIES	PERCENTAGE OF FACILITIES ³
METALS RECOVERY (FOR REUSE)	M011-M019	1,003,818	0.3	87	4.6
SOLVENTS RECOVERY	M021-M029	3,663,567	1.2	283	15.0
OTHER RECOVERY	M031-M039	478,331	0.2	74	3.9
INCINERATION	M041-M049	1,867,641	0.6	192	10.2
ENERGY RECOVERY (REUSE AS FUEL)	M051-M059	1,456,008	0.5	143	7.6
FUEL BLENDING	M061	1,392,318	0.5	94	5.0
AQUEOUS INORGANIC TREATMENT	M071-M079	19,255,576	6.5	211	11.2
AQUEOUS ORGANIC TREATMENT	M081-M089	131,867,038	44.8	115	6.1
AQUEOUS ORG & INORG TREATMENT	M091-M099	73,565,485	25.0	36	1.9
SLUDGE TREATMENT	м101-м109	171,306	0.1	53	2.8
STABILIZATION	M111-M119	1,155,818	0.4	58	3.1
OTHER TREATMENT	M121-M129	31,975,553	10.9	338	17.9
LAND TREATMENT / FARMING	M131	52,239	0.0	26	1.4
LANDFILL	M132	1,696,634	0.6	52	2.8
SURFACE IMPOUNDMENT	M133	240,307	0.1	, 9	0.5
DEEPWELL / UNDERGROUND INJECTION	M134	23,317,692	7.9	47	2.5
OTHER DISPOSAL	M137	1,277,976	0.4	65	3.4
UNKNOWN SYSTEM DUE TO INVALID CODE	UNKNOWN	1	0.0	2	0.1
TOTAL		294,437,307	100.0	1,203	100.0

¹Quantity managed only by storage is excluded.

²Facilities with only storage units are excluded.

³Column may not sum because facilities may have multiple handling methods.

Exhibit 2.10 Management Method, by Quantity of RCRA Hazardous Waste Managed, 1991

MANAGEMENT METHOD	SYSTEM TYPE CODE	TONS MANAGED ¹	PERCENTAGE OF QUANTITY	NUMBER OF FACILITIES ^{2,3}	PERCENTAGE OF FACILITIES ³
AQUEOUS ORGANIC TREATMENT	M081-M089	131,867,038	44.8	115	6.1
AQUEOUS ORG. AND INORG. TRT	M091-M099	73,565,485	25.0	36	1.9
OTHER TREATMENT	M121-M129	31,975,553	10.9	338	17.9
DEEPWELL / UNDERGROUND INJECTION	M134	23,317,692	7.9	47	2.5
AQUEOUS INORGANIC TREATMENT	M071-M079	19,255,576	6.5	211	11.2
SOLVENTS RECOVERY	M021-M029	3,663,567	1.2	283	15.0
INCINERATION	M041-M049	1,867,641	0.6	192	10.2
LANDFILL	M132	1,696,634	0.6	52	2.8
ENERGY RECOVERY (REUSE AS FUEL)	M051-M059	1,456,008	0.5	143	7.6
FUEL BLENDING	M061	1,392,318	0.5	94	5.0
OTHER DISPOSAL	M137	1,277,976	0.4	65	3.4
STABILIZATION	M111-M119	1,155,818	0.4	58	3.1
METALS RECOVERY (FOR REUSE)	M011-M019	1,003,818	0.3	,87	4.6
OTHER RECOVERY	M031-M039	478,331	0.2	74	3,9
SURFACE IMPOUNDMENT	М133	240,307	0.1	9	0.5
SLUDGE TREATMENT	M101-M109	171,306	0.1	53	2.8
LAND TREATMENT / FARMING	M131	52,239	0.0	26	1.4
UNKNOWN SYSTEM	UNKNOWN	1	0.0	16 2 %	0.1
TOTAL		294,437,307	100.0	1,203	100.0

¹Quantity managed only by storage is excluded. ²Facilities with only storage units are excluded. ³Column may not sum because facilities may have multiple handling methods.

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Exhibit 2.11 Management Method and Quantity of RCRA Hazardous Waste Managed, by Number of Facilities, 1991

MANAGEMENT METHOD	SYSTEM TYPE CODE	. TONS MANAGED ¹	PERCENTAGE OF QUANTITY	NUMBER OF FACILITIES ^{2,3}	PERCENTAGE OF FACILITIES ³
OTHER TREATMENT	M121-M129	31,975,553	10.9	338	17.9
SOLVENTS RECOVERY	M021-M029	3,663,567	1.2	283	15.0
AQUEOUS INORGANIC TREATMENT	M071-M079	19,255,576	6.5	211	11.2
INCINERATION	M041-M049	1,867,641	0.6	192	10.2
ENERGY RECOVERY (REUSE AS FUEL)	M051-M059	1,456,008	0.5	143	7.6
AQUEOUS ORGANIC TREATMENT	M081-M089	131,867,038	44.8	115	, 6.1
FUEL BLENDING	M061	1,392,318	0.5	94	5.0
METALS RECOVERY (FOR REUSE)	M011-M019	1,003,818	0.3	87	4.6
OTHER RECOVERY	M031-M039	478,331	0.2	74	3.9
OTHER DISPOSAL	M137	1,277,976	0.4	65	3.4
STABILIZATION	M111-M119	1,155,818	0.4	58	3.1
SLUDGE TREATMENT	м101-м109	171,306	. 0.1	53	2.8
LANDFILL	M132	1,696,634	0.6	52	2.8
DEEPWELL / UNDERGROUND INJECTION	M134	23,317,692	7.9	47	2.5
AQUEOUS ORG. AND INORG. TRT.	моэ1-моээ	73,565,485	25.0	36	1.9
LAND TREATMENT / FARMING .	M131	52,239	0.0	26	1.4
SURFACE IMPOUNDMENT	M133	240,307	. 0.1	9	0.5
UNKNOWN SYSTEM	UNKNOWN	1	0.0	2	0.1
TOTAL		294,437,307	100.0	1,203 .	100.9

¹Quantity managed only by storage is excluded.

²Facilities with only storage units are excluded.

³Column may not sum because facilities may have multiple handling methods.

Exhibits 2.12, 2.13, and 2.14 present the quantity of RCRA hazardous waste managed in various treatment and disposal units, limited to waste received from off site in 1991. Unlike wastes managed on site, the majority of which were managed in aqueous treatment systems, the majority of wastes that were managed off site were managed by recovery, fuel blending, stabilization, and landfilling. Eight million tons of waste (3% of the national total) was managed at a different facility than the generating facility. Given that the amount of non-wastewater managed was also 3% of the national total, these exhibits suggest that non-wastewaters tend to be shipped to commercial facilities or other facilities, while wastewaters are managed on site.

Recovery operations accounted for the largest portion (31%) of the national management total of waste received from off site. 1 million tons were managed in fuel blending units, 693 thousand tons were managed in metals recovery units, facilities reported that 463 thousand tons were managed in solvent recovery units, and 199 thousand tons were recovered by other methods such as acid regeneration, waste oil recovery, and non-solvent organic recovery.

Land disposal accounts for 21.6% of the total amount received from off site and managed on site. Nationwide, 1.2 million tons of hazardous wastes were disposed in landfills, 426 thousand tons were disposed in underground injection wells, 8 thousand tons were managed in surface impoundments, and 600 tons were managed by land application (land farming).

Aqueous treatment accounts for 13.9% of the total amount received from off site and managed on site. 299 thousand tons were managed in aqueous organic treatment units, 475 thousand tons in aqueous inorganic treatment units, and 294 thousand tons in both inorganic and organic aqueous treatment units.

Thermal treatment accounts for 12.8% of the received/managed total. Facilities reused 534 thousand tons as fuel in boilers or industrial furnaces and 452 thousand tons were incinerated.

A comparison between the management profile for all wastes and those received from off site shows that wastes managed off site are managed differently. Most wastes were managed by aqueous treatment. Wastes that were received from off site were managed by recovery, fuel blending, stabilization, or landfilling.

Exhibit 2.12 Quantity of RCRA Hazardous Waste Managed, by Management Method, Limited to Waste Received from Off Site, 1991

MANAGEMENT METHOD	SYSTEM TYPE CODE	TONS MANAGED ¹	PERCENTAGE OF QUANTITY	NUMBER OF FACILITIES ^{2,3}	PERCENTAGE OF FACILITIES ³
METALS RECOVERY (FOR REUSE)	M011-M019	692,778	9.0	42	6.1
SOLVENTS RECOVERY	M021-M029	463,447	6.0	95	13.7
OTHER RECOVERY	M031-M039	199,200	2.6	25	3.6
INCINERATION	M041-M049	452,235	5.9	71	10.2
ENERGY RECOVERY (REUSE AS FUEL)	M051-M059	533,868	6.9	46	6.6
FUEL BLENDING	M061	1,033,329	13.4	83	12.0
AQUEOUS INORGANIC TREATMENT	M071-M079	475,239	6.2	57	8.2
AQUEOUS ORGANIC TREATMENT	M081-M089	298,511	3.9	[/] 37	5.3
AQUEOUS ORG & INORG TREATMENT	M091-M099	293,922	3.8	21	3.0
SLUDGE TREATMENT	M101-M109	6,550	0.1	, 20	2.9
STABILIZATION	M111-M119	758,611	9.9	37	5.3
OTHER TREATMENT	M121-M129	783,440	10.2	94	13.5
LAND TREATMENT / FARMING	M131	642	0.0	3	0.4
LANDFILL	M132	1,228,710	.16.0	28	4.0
SURFACE IMPOUNDMENT	M133	8,477	0.1	1	0.1
DEEPWELL / UNDERGROUND INJECTION	M134	425,720	5.5	14	2.0
OTHER DISPOSAL	M137	35,837	0.5	18	2.6
UNKNOWN SYSTEM DUE TO INVALID CODE	UNKNOWN	1	0.0	2	0.3
TOTAL	7,690,516	100.0	427 ·	100.0	

¹Quantity managed only by storage is excluded.

²Facilities with only storage units are excluded.

³Column may not sum because facilities may have multiple handling methods.

Exhibit 2.13 Management Method, by Quantity of RCRA Hazardous Waste Managed, Limited to Waste Received from Off Site,

MANAGEMENT METHOD	SYSTEM TYPE CODE	TONS MANAGED ¹	PERCENTAGE OF QUANTITY	NUMBER OF FACILITIES ^{2,3}	PERCENTAGE OF FACILITIES ³
LANDFILL	M132	1,228,710	16.0	28	4.0
FUEL BLENDING	M061	1,033,329	13.4	83	12.0
OTHER TREATMENT	M121-M129	783,440	10.2	94	13.5
STABILIZATION	M111-M119	758,611	9.9	37	5.3
METALS RECOVERY (FOR REUSE)	M011-M019	692,778	9.0	42	6.1
ENERGY RECOVERY (REUSE AS FUEL)	M051-M059	533,868	6.9	46	6.6
AQUEOUS INORGANIC TREATMENT	M071-M079	475,239	6.2	57	8.2
SOLVENTS RECOVERY	M021-M029	463,447	6.0	95	13.7
INCINERATION	M041-M049	452,235	5.9	71	10.2
DEEPWELL / UNDERGROUND INJECTION	M134	425,720	5.5	14	2.0
AQUEOUS ORGANIC TREATMENT	M081-M089	298,511	3.9	37	5.3
AQUEOUS ORG & INORG TREATMENT	M091-M099	293,922	3.8	21	3.0
OTHER RECOVERY	M031-M039	199,200	2.6	25	3.6
OTHER DISPOSAL	M137	35,837	0.5	18	2.6
SURFACE IMPOUNDMENT	′ М133	8,477	0.1	1	0.1
SLUDGE TREATMENT	M101-M109	6,550	0.1	20	2.9
LAND TREATMENT / FARMING	M131	642	0.0	3	0.4
UNKNOWN SYSTEM DUE TO INVALID CODE	UNKNOWN	1	0.0	2	0.3
TOTAL		7,690,516	100.0	427	100.0

¹Quantity managed only by storage is excluded.

²Facilities with only storage units are excluded.
³Column may not sum because facilities may have multiple handling methods.

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Exhibit 2.14 Management Method and Quantity of RCRA Hazardous Waste Managed, by Number of Facilities, Limited to Waste Received from Off Site, 1991

MANAGEMENT METHOD	SYSTEM	TONS MANAGED ¹	PERCENTAGE OF QUANTITY	NUMBER OF FACILITIES ^{2,3}	PERCENTAGE OF FACILITIES ³
SOLVENTS RECOVERY	M021-M029	463,447	6.0	95	13.7
OTHER TREATMENT	M121-M129	783,440	10.2	94	13.5
FUEL BLENDING	M061	1,033,329	13.4	. 83	12.0
INCINERATION	M041-M049	452,235	5.9	71	10.2
AQUEOUS INORGANIC TREATMENT	М071-М079	475,239	6.2	57	8.2 ·
ENERGY RECOVERY (REUȘE AS FUEL)	M051-M059	533,868	6.9	46	6.6
METALS RECOVERY (FOR REUSE)	M011-M019	692,778	9.0	42	6.1
AQUEOUS ORGANIC TREATMENT	M081-M089	298,511	3.9	37	5.3
STABILIZATION	М111-М119	758,611	9.9	37	· 5.3
LANDFILL	M132	1,228,710	16.0	28	4.0
OTHER RECOVERY	M031-M039	199,200	2.6	25	3.6
AQUEOUS ORG & INORG TREATMENT	M091-M099	293,922	3.8	21	3.0
SLUDGE TREATMENT	м101-м109	6,550	0.1	20	2.9
OTHER DISPOSAL SPECIFIED IN COMMENTS	M137	35,837	0.5	18	2.6
DEEPWELL / UNDERGROUND INJECTION	M134	425,720	5.5	14	2.0
LAND TREATMENT / FARMING	M131	642	0.0	3	0.4
UNKNOWN SYSTEM DUE TO INVALID CODE	UNKNOWN	· 1	. 0.0	2	0.3
SURFACE IMPOUNDMENT	М133	8,477	0.1	1	0.1
TOTAL	TOTAL			427	100.0

¹Quantity managed only by storage is excluded. ²Facilities with only storage units are excluded.

³Column may not sum because facilities may have multiple handling methods.

3.0 SHIPMENTS AND RECEIPTS

In 1991, 23,560 shippers¹ reported shipping 12.7 million tons of waste. Exhibits 3.1, 3.2, and 3.3 present the quantity of waste shipped and the number of shippers in each EPA region. Of the regions, Region 6 reported shipping the largest amount of waste (2.7 million tons), while Region 5 reported the largest number of shippers (5,104). Region 10 reported shipping the least amount of waste (244 thousand tons), while Region 8 reported the smallest number of shippers (359).

Exhibits 3.4, 3.5, and 3.6 present the quantity of waste received and the number of TSD facilities that received waste in each of the regions. Overall, 794 TSD facilities reported receiving 8.2 million tons of waste in 1991. Region 5 reported both the largest quantity of receipts (2.4 million tons) and the largest number of receivers (184). Region 4 was second in both total receipts (880 thousand tons) and number of receivers (67).

¹The term "shipment" is intended to refer to the physical transfer of waste from one facility to another. In some cases, however, shipments occur between facilities that neighbor each other and are under the same corporate name. In these instances, EPA may have assigned unique EPA ID numbers to separate industrial sites within the same plant. The resulting shipments may merely be movement of wastes from one portion of the plant to another.

Exhibit 3.1 Number and Percentage of RCRA Hazardous Waste Shippers and Total RCRA Hazardous Waste Quantity Shipped, by EPA Region, 1991

EDA DEGIGN	HAZARDOUS WA	ASTE QUANTITY	SHIF	PPERS
EPA REGION	EPA REGION TONS SHIPPED		NUMBER	PERCENTAGE
1	2,157,298	17.0	1,559	6.6
2 .	1,369,716	10.8	4,909	20.8
s 3	842,069	6.7	2,183	9.3
4	1,251,835	9.9	3,145	13.3
5	2,6 ⁶ 8,277	21.1	5,104	21.7
6	2,718,814	21.5	1,805	7.7
7	338,842	2.7	796	3.4
8	444,523	3.5	359	1.5
9 ,	617,538	4.9	2,536	10.8
10	244,074	1.9	1,164	4.9
TOTAL	12,652,985	100.0	23,560	100.0

Exhibit 3.2 Number and Percentage of RCRA Hazardous Waste Shippers and Quantity of Waste Shipped in Each Region, by the Total Quantity of Waste Shipped, 1991

	HAZARDOUS W	ASTE QUANTITY	SHIPPERS		
EPA REGION.	TONS SHIPPED	TONS SHIPPED PERCENTAGE NUMBER		PERCENTAGE	
6	2,718,814	21.5	1,805	7.7	
5 .	2,668,277	21.1	5,104	21.7	
1	2,157,298	17.0	1,559	6.6	
2	1,369,716	10.8	4,909	20.8	
4	1,251,835	9.9	3,145	13.3	
. 3	842,069	6.7	2,183	9.3	
9	617,538	4.9	2,536	10.8	
8	444,523	3.5	359	1.5	
7	338,842	2.7	796	3.4	
10	244,074	1.9	1,164	4.9	
TOTAL	12,652,985	100.0	23,560	100.0	

Note: Columns for these two exhibits may not sum due to rounding.

Exhibit 3.3 Number and Percentage of RCRA Hazardous Waste Shippers and Quantity Shipped in Each Region, by Highest Number of Shippers, 1991

	SH	IIPPERS	HAZARDOUS WASTE QUANTITY			
EPA REGION	NUMBER	PERCENTAGE	TONS SHIPPED	PERCENT AGE		
5	5,104	21.7	2,668,277	21.1		
2	4,909	20.8	1,369,716	10.8		
4	3,145	13.3	1,251,835	9.9		
9	2,536	10.8	617,538	4.9		
3	2,183	9.3	842,069	6.7		
6	1,805	7.7	2,718,814	21.5		
1	1,559	6.6	2,157,298	17.0		
10	1,164	4.9	244,074	1.9		
7.	796	3.4	338,842	2.7		
8	359	1.5	444,523	3.5		
TOTAL	23,560	100.0	12,652,985	100.0		

Exhibit 3.4 Number and Percentage of RCRA Hazardous Waste Receivers and Quantity Received, by EPA Region, 1991

	HAZARDOUS WA	ASTE QUANTITY	RECEIVING FACILITIES		
EPA REGION	TONS RECEIVED	PERCENTAGE	NUMBER	PERCENTAGE	
1	110,170	1.3	37	4.7	
2	884,113	10.8	67	8.4	
, 3	597,389	7.3	68	8.6	
4	1,216,485	14.9	131	16.5	
5	2,442,585	29.8	184	23.2	
6	958,301	11.7	106	13.4	
7	476,778	5.8	54	6.8	
8	87,749	1.1	28	3.5	
9	1,183,623	14.5	81	10.2	
10	229,757	2.8	38	4.8	
TOTAL	8,186,950	100.0	794	100.0	

Note: Columns for these two exhibits may not sum due to rounding.

Exhibit 3.5 Number and Percentage of RCRA Hazardous Waste Receivers and Quantity Received in Each Region, by the Quantity of RCRA Hazardous Waste Received, 1991

	HAZARDOUS WA	ASTE QUANTITY	RECEIVING FACILITIES		
EPA REGION	TONS RECEIVED	PERCENTAGE	NUMBER	PERCENTAGE	
5	2,442,585	29.8	184	23.2	
4	1,216,485	14.9	131	16.5	
9	1,183,623	14.5	81	10.2	
6	958,301	11.7	106	13.4	
2	884,113	10.8	67	8.4	
3	597,389	7.3	68	8.6	
7	476,778	5.8	54	6.8	
10	229,757	2.8	38	4.8	
1	110,170	1.3	37	4.7	
8	87,749	1.1	28	3.5	
TOTAL	8,186,950	100.0	794	100.0	

Exhibit 3.6 Number and Percentage of RCRA Hazardous Waste Receivers and Quantity Received in Each Region, by the Number of Receiving Facilities, 1991

	RECEIVING	G FACILITIES	HAZARDOUS WASTE QUANTITY		
EPA REGION	NUMBER	NUMBER PERCENTAGE		PERCENTAGE	
5	184	23.2	2,442,585	29.8	
4	131	16.5	1,216,485	14.9	
6	106	13.4	958,301	11.7	
9	81 ·	10.2	1,183,623	14.5	
3	68	8.6	597,389	7.3	
2	. 67	8.4	884,113	10.8	
7	54	6.8	476,778	5.8	
10	38	4.8	229,757	2.8	
1	37	4.7	110,170	1.3	
8	28	3.5	87,749	1.1	
TOTAL	794	100.0	8,186,950	100.0	

Note: Columns for these two exhibits may not sum due to rounding.

Exhibits 3.7, 3.8, and 3.9 present the quantity of waste shipped and the number of shippers in each state. Texas reported shipping the largest quantity of waste (2.2 million tons), followed by Connecticut (1.8 million tons) and Michigan (750 thousands tons). New York reported the largest number of shippers (2,638), followed by New Jersey (2,172) and California (2,172).

Exhibit 3.7 Quantity of RCRA Hazardous Waste Shipped, and Number of Hazardous Waste Shippers, by State, 1991

	RCRA	RCRA HAZARDOUS WASTE QUANTITY NUMBER OF SHIPPERS			HIPPERS	
STATE	RANK	TONS SHIPPED	PERCENTAGE	RANK	NUMBER	PERCENTAGE
ALABAMA	14	290,979	2.3	23	280	1.2
ALASKA	49	2,761	0.0	45	60	0.3
ARIZONA	34	40,773	0.3	26	246	1.0
ARKANSAS	22	120,427	1.0	34	149	0.6
CALIFORNIA	9	560,577	4.4	2	2,172	9.2
COLORADO	33	48,906	0.4	35	146	0.6
CONNECTICUT	2	1,814,552	14.3	15	485	2.1
DELAWARE	38	18,873	0.1	44	62	0.3
DISTRICT OF COLUMBIA	53	934	0.0	52	12	0.1
FLORIDA	24	92,997	0.7	18	410	1.7
GEORGIA	23	105,899	0.8	19	398	1.7
GUAM	54	408	0.0	53	9	. 0.0
HAWAII	47	3,561	0.0	48	35	0.1
IDAHO	46	6,108	0.0	47	40	0.2
ILLINOIS	10	490,275	3.9	6	1,249	5.3
INDIANA	5	617,953	4.9	10	673	2.9
IOWA	37	26,306	0.2	33	157	0.7
KANSAS	19	160,303	1.3	30	172	0.7
KENTUCKY	17	162,947	1.3	17	446	1.9
LOUISIANA	13	291,011	2.3	22	308	1.3
MAINE	42	11,987	0.1	28	184	0.8
MARYLAND	28	82,389	0.7	16	462	2.0
MASSACHUSETTS	15	266,098	2.1	13	554	2.4
MICHIGAN	3	746,418	5.9	'3	770	3.3
MINNESOTA	32	62,048	0.5	24	272	3.3 1.2
MISSISSIPPI	36	36,251	0.3	27	197	0.8
MISSOURI	21	136,674	1.1	20		
MONTANA	45	8,733	0.1	46	387 51	1.6
NEBRASKA	40	i '		40	80	0.2
NEVADA	40	15,559	0.1			0.3
		10,197	0.1	41	71	0.3
NEW HAMPSHIRE	43	11,191	0.1	31	167	0.7
NEW JERSEY	7	607,963	4.8	2	2,172	9.2
NEW MEXICO	41	12,617	0.1	42	68	0.3
NEW YORK	4	672,526	5.3	1	2,638	11.2
NORTH CAROLINA	26	87,500	0.7	12 .	584	2.5
NORTH DAKOTA	48	3,454	0.0	51	16	0.1
OHIO	6	609,787	4.8	4	1,539	6.5
OKLAHOMA	27	85,164	0.7	32	159	0.7
OREGON	29	69,973	0.6	29	179	0.8
PENNSYLVANIA	8	606,682	4.8	5	1,263	5.4
PUERTO RICO	25	88,907	0.7	39	98	0.4
RHODE ISLAND	39	15,772	0.1	37	105	0.4
SOUTH CAROLINA	12	312,552	2.5	21	336	1.4
SOUTH DAKOTA	52	1,272	0.0	50	20	0.1
TENNESSEE	18	162,712	1.3	14	494	2.1
TEXAS	1	2,209,595	. 17.5	7	1,121	4.8
TRUST TERRITORIES	50	2,022	, 0.0	54	3	0.0
UTAH	11	380,517	3.0	38	101	0.4
VERMONT	35	37 <u>,</u> 697	0.3	43	64	0.3
VIRGIN ISLANDS	55 [,]	321	0.0	55	1	0.0,
VIRGINIA	30	69,444	0.5	25	266	1.1
WASHINGTON	16	165,232	1.3	8.	885	3.8
WEST VIRGINIA	31	63,747	0.5	36	118	0.5
WISCONSIN	20	141,796	1.1	11	601	2.6
WYOMING	51	1,642	0.0	49	25	0.1
TOTAL		. 12,652,985	100.0		23,560	100.0

Exhibit 3.8 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Shipped, and Number of Hazardous Waste Shippers, 1991

1.1111, 1040	zardous Waste Shippers, 1991 RCRA HAZARDOUS WASTE QUANTITY NUME				JIIMBED OF CL	IBER OF SHIPPERS		
STATE	RANK	TONS SHIPPED	PERCENTAGE	RANK	NUMBER OF SI	PERCENTAGE		
TEXAS	1 1	2,209,595	17.5		<u> </u>	4.8		
CONNECTICUT	2	1,814,552	14.3	7 15	1,121			
MICHIGAN	3	746,418	5.9	9	485 770	2.1 3.3		
NEW YORK	4	672,526	5.3	1	2,638	3.3 11.2		
INDIANA	5	617,953	4.9	10		2.9		
OHIO	6	609,787	4. 9 4.8		673 1,539	6.5		
NEW JERSEY	7	607,963	4.8 4.8	4 2				
PENNSYLVANIA	8	606,682	4.8	5	2,172 1,263	9.2 5.4		
CALIFORNIA	9 -	560,577	4.4	2	2,172	9.2		
ILLINOIS	10	490,275	3.9	6 / .	1,249			
UTAH	11	380,517	3.0	38	1,249	5.3 0.4		
SOUTH CAROLINA	12	312,552	2.5	21	336	1 '		
LOUISIANA	13	291,011	2.3	21	308	1.4 1.3		
ALABAMA	14	290,979	2.3	22	280	1.3		
MASSACHUSETTS	15	266,098	2.3 2.1	13	554	2.4		
WASHINGTON	16	165,232	1.3	8	885	3.8		
KENTUCKY	17	162,947	1.3	17	446			
TENNESSEE	18	162,712	1.3	14	494	1.9		
KANSAS	19	160,303	1.3	30		2.1		
WISCONSIN	20	141,796	1.1	11	172 601	0.7		
MISSOURI	20	136,674	1.1	20		2.6		
ARKANSAS	22				387	1.6		
GEORGIA	23	120,427	1.0	34	149	0.6		
FLORIDA	23 24	105,899 92,997	0.8 0.7	19 18	398 410	1.7		
PUERTO RICO	25	88,907	0.7	39	2	1.7		
NORTH CAROLINA	25 26	87,500	0.7	12	98	0.4		
OKLAHOMA	27	87,300 85,164	0.7	32	584 159	2.5 0.7		
MARYLAND	28	82,389	0.7	32 16	462			
OREGON	29	69,973	0.6	29	179	2.0		
VIRGINIA	30	69,444	0.6 0.5	29 25	A Company of the Comp	0.8		
WEST VIRGINIA	31	63,747	0.5	25 36	266 118	1.1 0.5		
MINNESOTA	32	62,048	0.5	24	272			
COLORADO	33	48,906	0.4	35	146	1.2 0.6		
ARIZONA	34	40,773	0.3	26	246	1.0		
VERMONT	35	37,697	0.3	43	64	0.3		
MISSISSIPPI	36	36,251	0.3	27	197	0.8		
IOWA	37	26,306	0.2	33	157	0.7		
DELAWARE	38	18,873	0.1	44	62	0.3		
RHODE ISLAND	39	15,772	0.1	37	105	0.3		
NEBRASKA	40	15,772	0.1	40	80	0.4		
NEW MEXICO	41	12,617	0.1	42	68	0.3		
MAINE	42	11,987	0.1	28	184	0.8		
NEW HAMPSHIRE	43	11,191	0.1	31	167	0.7		
NEVADA	44	10,197	0.1	41	71	0.3		
MONTANA	45	8,733	0.1	46	51	0.3		
IDAHO	46	6,108	0.0	47	40	0.2		
HAWAII	47	3,561	0.0	48	35	0.1		
NORTH DAKOTA	48	3,454	0.0	51	16	0.1		
ALASKA	49	2,761	0.0	45	60	0.3		
TRUST TERRITORIES	50	2,022	0.0	54	3	0.0		
WYOMING	51	1,642	0.0	49	25	0.1		
SOUTH DAKOTA	52	1,272	0.0	50	20	0.1		
DISTRICT OF COLUMBIA	53	934	0.0	52	.12	0.1		
GUAM -	54	408	0.0	53	9	0.0		
VIRGIN ISLANDS	55	321	0.0	55	1	0.0		
TOTAL		12,652,985	100.0		23,560	100.0		
IOIAL		12,002,300	יייטיי		23,500	100.0		

Exhibit 3.9 Rank Ordering of States Based on Number of Hazardous Waste Shippers, and Quantity of RCRA Hazardous Waste Shipped, 1991

Hazardous Waste Shipped, 1991 I NUMBER OF SHIPPERS RCRA HAZARDOUS WASTE QUANTITY						
		NUMBER OF SH	IPPERS	RCRA		TE QUANTITY
STATE	RANK	NUMBER	PERCENTAGE	RANK	TONS SHIPPED	PERCENTAGE
NEW YORK	1	2,638	11.2	4	672,526	5.3
NEW JERSEY	2	2,172	9.2	7	607,963	4.8
CALIFORNIA	2	2,172	9.2	9	560,577	4.4
оню	4	1,539	6.5	6	609,787	4.8
PENNSYLVANIA	5	1,263	5.4	8	606,682	4.8
ILLINOIS	6	1,249	5.3	10	490,275	3.9
TEXAS	7	1,121	4.8	1	2,209,595	17.5
WASHINGTON	8	885	3.8	16	165,232	1.3
MICHIGAN	9	770	3.3	3	746,418	5.9
INDIANA	10	673	2.9	5	617,953	4.9
WISCONSIN	11	601	2.6	20	141,796	1.1
NORTH CAROLINA	12	584	2.5	26	87,500	0.7
MASSACHUSETTS	13	554	2.4	15	266,098	2.1
TENNESSEE	14	494	2.1	18	162,712	1.3
CONNECTICUT	15	485	2.1	2	1,814,552	14.3
MARYLAND	16	462	2.0	28	82,389	0.7
KENTUCKY	17	446	1.9	17	162,947	1.3
FLORIDA	18.	410	1.7	24	92,997	0.7 0.8
GEORGIA	19	398	1.7	23	105,899	1.1
MISSOURI	20	387	1.6	21	136,674	2.5
SOUTH CAROLINA	21	336	1.4	12	312,552	2.5
LOUISIANA	22	308	1.3	13	291,011	2.3
ALABAMA	23	280	1.2	14	290,979	0.5
MINNESOTA	24	272	1.2	32	62,048 69,444	0.5
VIRGINIA	25	266	1.1	30 34	40,773	0.3
ARIZONA	26 27	246 197	1.0 0.8	36	36,251	0.3
MISSISSIPPI MAINE	28	184	0.8	42	11,987	0.3
OREGON	29	179	0.8	29	69,973	0.6
KANSAS	30	173	0.8	19	160,303	1.3
NEW HAMPSHIRE	31	167	0.7	43	11,191	0.1
OKLAHOMA	32	159	0.7	27	85,164	0.7
IOWA	33	157	0.7	37	26,306	0.2
ARKANSAS	34	149	0.6	22	120,427	1.0
COLORADO	35	146	0.6	33	48,906	0.4
WEST VIRGINIA	36	118	0.5	31	63,747	0.5
RHODE ISLAND	37	105	0.4	39	15,772	0.1
UTAH	38	101	0.4	11	380,517	3.0
PUERTO RICO	39	98	0.4	25	88,907	0.7
NEBRASKA	40	80	0.3	40	15,559	0.1
NEVADA	41	71	0.3	44	10,197	0.1
NEW MEXICO	42	68	0.3	41	12,617	0.1
VERMONT	43	64	0.3	35	37,697	0.3
DELAWARE	44	. 62	0.3	38	18,873	0.1
ALASKA	45	60	. 0.3	49	2,761	0.0
MONTANA	46	51	0.2	45	8,733	0.1
IDAHO	47	40	0.2	46	6,108	0.0
HAWAII	48	35	0.1	47	3,561	0.0
WYOMING	49	25	0.1	51	1,642	0.0
SOUTH DAKOTA	50	20	0.1	52	1,272	0.0
NORTH DAKOTA	51	16	0.1	48 ,	3,454	0.0
DISTRICT OF COLUMBIA	52	12	0.1	53	934	0.0
GUAM	53	9	0.0	54	408	0.0
TRUST TERRITORIES	54	3	0.0	50	. 2,022	0.0
VIRGIN ISLANDS	55	1	0.0	55	321	0.0
TOTAL		23,560	100.0		12,652,985	100.0

Exhibits 3.10, 3.11, and 3.12 present the quantity of waste received and the number of TSD facilities receiving waste in each of the states. California (1.1 million tons), Ohio (720 thousand tons), and Michigan (560 thousand tons) reported receiving the largest quantities of waste. Texas (64), California (63), and Ohio (49) had the largest number of TSD facilities receiving waste.

Overall, 794 receivers reported receiving 8.2 million tons of waste. This represents a 4.5 million difference between the amount of waste reported shipped and the amount reported received. One reason for the difference may be related to non-reporting by neighboring facilities under the same corporate name. For example, the largest two shippers in the U.S., as shown in Exhibit 3.13, reported shipping 2.8 tons of hazardous waste to neighboring facilities with the same corporate name. These receiving facilities did not report receiving the waste, suggesting that, while waste was transferred from one EPA ID to another, the management of this waste was more akin to on site treatment in an exempt wastewter treatment unit.

Exhibits 3.13 and 3.14 present listings of the 50 largest shippers and receivers, respectively, in the nation. The largest 50 shippers account for 48% of the total quantity shipped in the U.S. and the 50 largest receivers account for 59% of the total amount received.

Exhibit 3.10 Quantity of RCRA Hazardous Waste Received and Number of Receivers, by State, 1991

	RCRA HAZARDOUS WASTE QUANTITY NUMBER OF			UMBER OF REC	RECEIVERS	
STATE	RANK	TONS RECEIVED	PERCENTAGE	RANK	NUMBER	PERCENTAGE
ALABAMA	11	352,568	4.3	18	17	2.1
ALASKA ·	49	231	0.0	42	3	0.4
ARIZONA	35	12,245	0.1	35	7	0.9
ARKANSAS	17	128,985	1.6	26	11	1.4
CALIFORNIA	1 1	1,115,706	13.6	2	63	7.9
COLORADO	37	10,896	0.1	26	11	1.4
CONNECTICUT	31	32,598	0.4	20	14	1.8
DELAWARE	45	653	0.0	45	2	0.3
DISTRICT OF COLUMBIA	51	. 0	0.0	51	0	0.0
FLORIDA	19	114,130	1.4	8	28	3.5
GEORGIA	26	60,657	0.7	13	. 20	2.5
GUAM	50	98	0.0	49	1	0.1
HAWAII	41	2,607	0.0	39	4	0.5
IDAHO	32	32,256	0.4	36	6	0.8
ILLINOIS	6	474,441	5.8	5	37	4.7
INDIANA	4	540,210	6.6	6	34	4.3
IOWA	38	6,095	0.1	34	8	1.0
KANSAS	13	278,299	3.4	24	12	1.5
KENTUCKY	18	126,721	1.5	22	13	1.6
LOUISIANA	10	392,715	4.8	18	17	2.1
MAINE	43	1,358	0.0	45	2	0.3
MARYLAND	33	18,296	0.0	32	9	1.1
MASSACHUSETTS	25					
4	3	62,949	0.8 6.9	· 20 9	14	1.8
MICHIGAN	1 -	563,575	1 0.5	-	26	3.3
MINNESOTA	20	92,264	1.1	13	20	2.5
MISSISSIPPI	40	2,739	0.0	28	10	1.3
MISSOURI	14	177,147	2.2	11	25	3.1
MONTANA	48	298	0.0	49	1	0.1
NEBRASKA	34	15,237	0.2	32	9	1.1
NEVADA .	28	52,967	0.6	. 36	6	0.8
NEW HAMPSHIRE	51	. 0	0.0	_, 51	0	0.0
NEW JERSEY	7	442,884	5.4	12	24	3.0
NEW MEXICO	46	580	0.0	39	4	0.5
NEW YORK	9	402,005	4.9	4	. 38	4.8
NORTH CAROLINA	29	46,316	0.6	13	20	2.5
NORTH DAKOTA	44	790	0.0	45	2	0.3
оню	2	714,568	8.7	3	49	6.2
OKLAHOMA	15.	149,345	1.8	28	. 10	1.3
OREGON	16	132,612	1.6	42	3	0.4
PENNSYLVANIA	5	505,520	6.2	. 7	29	3.7
PUERTO RICO	30	39,224	0.5	38	5	0.6
RHODE ISLAND	36	11,079	0.1	42	3	0.4
SOUTH CAROLINA	8	437,594	5.3	22	13	1.6
SOUTH DAKOTA	47	370	0.0	45	2	0.3
TENNESSEE	21	75,762	0.9	28	10	1.3
TEXAS	12	286,677	3.5	1	64	8.1
TRUST TERRITORIES	51	0	0.0	51	o	0.0
UTAH	22	75,397	0.9	24	12	1.5
VERMONT	42	2,185	0.0	39	4	0.5
VIRGINIA	23	68,031	0.8	16	18	2.3
VIRGIN ISLANDS	51	00,001	0.0	51	10	0.0
WASHINGTON	24	64,658	0.8	9	26	3.3
WEST VIRGINIA	39	4,889	0.1	28	10	1.3
WISCONSIN	27	57,527	0.7	,16	18	2.3
WYOMING	51	0	0.0	51	l o	0.0
	1 21	L	.1	31	I	
TOTAL		8,186,950	100.0		794	100.0

Exhibit 3.11 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Received and Number of Receivers, 1991

Receivers,		A HAZARDOUS WAST	FOUANTITY	NUMBER OF RE		CEIVERS
STATE	RANK	TONS RECEIVED	PERCENTAGE	RANK	NUMBER	PERCENTAGE
CALIFORNIA	1	1,115,706	13.6	2	63	7.9
ОНЮ	2	714,568	8.7	3	49	6.2
MICHIGAN	3	563,575	6.9	9	26	3.3
INDIANA	4	540,210	6.6	6	34	4.3
PENNSYLVANIA	5	505,520	6.2	7	29	3.7
ILLINOIS	6	474,441	5.8	5	37	4.7
NEW JERSEY	7	442,884	5.4	12	24	3.0
SOUTH CAROLINA	8	437,594	5.3	22	13	1.6
NEW YORK	9	402,005	4.9	4	38	4.8
LOUISIANA	10	392,715	4.8	18	17	2.1
ALABAMA	11	352,568	4.3	18 "	17	2.1
TEXAS	12	286,677	3.5	1	64	8.1
KANSAS	13	278,299	3.4	24	12	1.5
MISSOURI	14	177,147	2.2	11	25	3.1
OKLAHOMA	15	149,345	1.8	28	10	1.3
OREGON	16	132,612	1.6	42	3	0.4
ARKANSAS	17	128,985	1.6	26	11	1.4
KENTUCKY	18	126,721	1.5	22	13	1.4
FLORIDA	19	114,130	1.4	8	28	3.5
MINNESOTA	20	92,264	1.1	13	20	2.5
TENNESSEE	21	75,762	0.9	28	10	1.3
UTAH	22	75,397	0.9	24	12	1.5
VIRGINIA	23	68,031	0.8	16	18	2.3
WASHINGTON	24	64,658	0.8	9	26	3.3
MASSACHUSETTS	25	62,949	0.8	20	14	1.8
GEORGIA	26	60,657	0.7	13	20	2.5
WISCONSIN	27	57,527	0.7	16	18	2.5
NEVADA	28	52,967	0.6	36	6	2.3 0.8
NORTH CAROLINA	29	46,316	0.6	36 13	20	2.5
PUERTO RICO	30	39,224	0.5	38		2.5 0.6
CONNECTICUT	31	32,598	0.4	20	14	1.8
IDAHO	32	32,256	0.4	36.	'-	0.8
MARYLAND	33	18,296	0.2	32	9	1.1
NEBRASKA	34	15,237	0.2	32	9	1.1
ARIZONA	35	12,245	0.1	35	7	0.9
RHODE ISLAND	36	11,079	0.1	42	3	0.4
COLORADO	.37	10,896	0.1	26	11	1.4
IOWA	38	6,095	0.1	34	8	1.0
WEST VIRGINIA	39	4,889	0.1	28	10	1.3
MISSISSIPPI	40	2,739	0.0	28	10	1.3
HAWAII	41	2,607	0.0	39	4	0.5
VERMONT	42	2,185	0.0	39	4	0.5
MAINE	43	1,358	0.0	45	2	0.3
NORTH DAKOTA	44	790	0.0	45	2	0.3
DELAWARE	45	653	0.0	45	2	0.3
NEW MEXICO	46	580	0.0	39	4	0.5
SOUTH DAKOTA	47	370	0.0	45	2	0.3
MONTANA	48	298	0.0	49	1	0.1
ALASKA	49	231	0.0	42	3	0.4
GUAM	50	98	0.0	49	1	0.1
DISTRICT OF COLUMBIA	51	0	0.0	51	0	0.0
NEW HAMPSHIRE	51	0	0.0	51	0	0.0
TRUST TERRITORIES	51	0	0.0	51	0	0.0
VIRGIN ISLANDS	51	0	0.0	51	0	0.0
WYOMING	51	0	0.0	51	0	0.0
TOTAL		8,186,950	100.0		794	100.0
				* 1		

Exhibit 3.12 Rank Ordering of States Based on Number of Receiving Facilities, and Quantity of RCRA Hazardous Waste Received, 1991

	N	IUMBER OF RE	MBER OF RECEIVERS RCRA HAZARDOUS WASTE			QUANTITY
STATE	RANK	NUMBER	PERCENTAGE	RANK	TONS RECEIVED	PERCENTAGE
TEXAS	1	64	8.1	12	286,677	3.5
CALIFORNIA	2	63	7.9	1	1,115,706	13.6
оню	3	49	6.2	2	714,568	8.7
NEW YORK	4	38	4.8	.9	402,005	4.9
ILLINOIS	5	37	4.7	6	474,441	5.8
INDIANA .*	6	34	4.3	4	540,210	6.6
PENNSYLVANIA	7 1	29	3.7	5	505,520	6.2
FLORIDA	8	28	3.5	19	114,130	1.4
MICHIGAN	9	26	● 3.3	3	563,575	6.9
WASHINGTON	9	26	3.3	24	64,658	0.8
MISSOURI	11	25	3.1	14	177,147	2.2
NEW JERSEY	12	24	3.0	7	442,884	5.4
GEORGIA	13	- 20	2.5	26	60,657	0.7
MINNESOTA	13	20	2.5	· 20	92,264	1.1
NORTH CAROLINA	13	20	2.5	29	46,316	0.6
VIRGINIA	16	18	2.3	23	68,031	0.8
WISCONSIN	16	18	2.3	27	57,527	0.7
ALABAMA	18	17	2.1	11	352,568	4.3
LOUISIANA	18	17	2.1	10	392,715	4.8
CONNECTICUT	20	14	· 1.8	31	32,598	0.4
MASSACHUSETTS	20	14	1.8	25	62,949	0.8
KENTUCKY	22	13	1.6	18	126,721	1.5
SOUTH CAROLINA	22	. 13	1.6	8	437,594	5.3
KANSAS	24	12	1.5	13	278,299	3.4
UTAH	24	. 12	1.5	22	75,397	0.9
ARKANSAS	26	11	1.4	17	128,985	1.6
COLORADO	26	. 11	1.4	37	10,896	0.1
MISSISSIPPI	28	. 10	1.3	40	2,739	0.0
OKLAHOMA	28	10	1.3	15	149,345	1.8
TENNESSEE	28	10	1.3	21	75,762	0.9
WEST VIRGINIA	28	10	1.3	39	4,889	0.1
MARYLAND	32	9	1.1	33	18,296	0.2
NEBRASKA	32	9	1.1	34	15,237	0.2
IOWA	34	8 -	1.0	38	6,095	0.1
ARIZONA	35	7	0.9	35	12,245	0.1
IDAHO	36	6	0.8	32	32,256	0.4
NEVADA	36	6	0.8	28	52,967	0.6
PUERTO RICO	38	, 5	0.6	30	39,224	0.5
HAWAII	39	4	0.5	41	2,607	0.0
NEW MEXICO	39	4	0.5	46	580	0.0
VERMONT	39	4	0.5	42	2,185	0.0
ALASKA	42	3	0.4	49	231	0.0
OREGON	42	3	0.4	16	132,612	1.6
RHODE ISLAND	42	3	0.4	36	11,079	0.1
DELAWARE ·	45	2	0.3	45	653	0.0
MAINE	45	2	0.3	43 .	1,358	0.0
NORTH DAKOTA	45	2	0.3	44	790	0.0
SOUTH DAKOTA	45	2	0.3	47	370	0.0
GUAM	49	1 1	0.1	50	98	0.0
MONTANA	49	1 1	0.1	48	298	0.0
DISTRICT OF COLUMBIA	51	0	0.0	51	0	0.0
NEW HAMPSHIRE	51	0	0.0	51	0	0.0
TRUST TERRITORIES	. 51	0	0.0	51	. 0	0.0
VIRGIN ISLANDS	51	0	0.0	51	0	0.0
WYOMING	51	0	0.0	51	, 0	0.0
TOTAL		794	100.0		8,186,950	100.0

Exhibit 3.13 Fifty Largest RCRA Hazardous Waste Shippers in the U.S., 1991

CTD990672081	RANK	EPA ID	NAME	CITY	TONS SHIPPED
2 TXD005942438 AMOCO CHEMICAL COMPANY - PLANT B SITE MAGNA, UT 35	1	CTD990672081		EAST HARTFORD,CT	1,682,540
UTD000826446	2		AMOCO CHEMICAL COMPANY - PLANT B SITE	•	1,161,508
A NYDO02128552 GMC HARRISON DIVISION LOCKPORT,NY 26 GMC TRUCK AND BUS DIV PONTIAC WEST PONTIAC,MI 20 20 20 20 20 20 20 2	-		KENNECOTT UTAH COPPER - SMELTER		357,904
MID9805688368 GMC TRUCK AND BUS DIV PONTIAC WEST CONTIAC, MI 20 20 20 20 20 20 20 2		NYD002126852		•	268,813
6 SCD042827448 7 MAD0593428980 7 KSD07249890 1 TXD073912974 10 MID000724931 11 IND093219012 12 ALD000622464 13 LAD000622464 14 LAD981020994 15 TXD073201 16 IND0064280371 17 TXD00742304 18 IND006428907 18 IND006482801 19 NYD002099748 20 NYD0980538289 21 ARD0693481902 22 NYD980538288 23 MID027837693 24 PRD980526180 25 KYD09334108 26 ILD005174404 27 NJD002200046 28 ALD070517367 29 IND00238357 30 NYD000289381 30 NYD002893783 31 LAD0793198737 32 LAD079340007 32 LAD079340007 33 LAD0793707 34 LAD079340007 35 LAD079340007 36 RAD001700707 37 LAD001700707 38 LAD079340007 39 LAD07937937 30 NYD000888063 31 WID0093739763 31 TXD002179346 32 NJD002179346 33 NJD002179346 34 OHD0001790707 35 LAD079340007 36 LAD079340007 37 TXD000218873 38 OHD004218873 39 CAT170080016 30 NYD000888066 31 WID009348981 31 NJD0021793464 32 NJD002179346 33 NJD002179346 34 OHD0001790707 35 LAD079340007 36 LAD07940007 37 TXD000888066 38 NJD002179346 39 NJD002179346 30 NJD002179346 30 NJD0001790707 31 LAD079404095 32 LAD079404095 33 NJD002179346 34 OHD0001790707 35 LAD079404095 36 PAD002179346 37 TXD008080533 38 OHD004218873 39 CAT170080016 30 NYD008886787195 40 CAD981186002 40 CAD981186002 40 CAD981186002 41 CAD981186002 42 PAD980753099 43 NJD98657195 44 LAD00901790707 45 LAD079464095 46 LAD079464095 47 NJD0001709707 48 LAD079464095 49 CAD98076309 40 CAD981186002 41 CAD981078002 42 PAD980753099 43 NJD98657195 44 LAD000618298 45 MID00618298 46 MID00618298 47 NJD00061808 48 CAD00680853 49 NJD98657195 40 CAD0680853 41 CAD0680853 42 CAD0680853 43 OHD046203774 44 LAD006880855 45 MID00608085 46 TXD06808653 47 CAD6808658 48 CAD0680853 49 CAD0680853 40 CAD0680853 40 CAD0680853 40 CAD0680853 40 CAD0680853 40 CAD0680853 40 CAD0680853		MID980568836	GMC TRUCK AND BUS DIV PONTIAC WEST		205,476
7 MADOS3452637 CLEAN HARBORS OF BRAINTREE BRAINTREE, MA 15 KENDO7249380 TXDO73912974 MITCHOPH NORTH AMERICA, INC WICHITA, KS 11 MIDO90724831 MITCHOPH NORTH AMERICA, INC WICHITA, KS 11 MIDO93219012 LACOD0622464 CHEMICAL WASTE MANAGEMENT LACOD077201 LEPHATOGE ENVIRONMENTAL SERVICES INDIANAPOLIS, IN 9 MITCHOPH NORTH AMERICA, INC WICHITA, KS 11 MITCHOPH NORTH AMERICA, INC WICHITA, KS 12 LEPHATOGE ENVIRONMENTAL SERVICES INDIANAPOLIS, IN 9 MITCHOPH NORTH AMERICA, INC WICHITA, KS 11 MITCHOPH NORTH AMERICA, INC WICHITA, KS 12 LEPHATOGE ENVIRONMENTAL SERVICES INDIANAPOLIS, IN 9 MIDO2020844 FISHER INDIASTRIAL SERVICE, INC GADSDEN, AL 6 ARCO CHEMICAL COMPANY - BAYPORT PASADENA, TX 6	6	SCD042627448	MTM HARDWICK INC.		176,838
8 KSD007249980 EL ATOCHEM NORTH AMERICA, INC WICHITA,KS 11 10 MID000724831 MITERORONTINENTAL TERMINALS DEER PARK,TX 10 MID000724831 MICHIGAN DISPOSAL, INC. BELLEVILLE,MI 9 MIDIANAPOLIS,IN	7	MAD053452637	CLEAN HARBORS OF BRAINTREE	· ·	150,064
9 TXD079312974 INTERCONTINENTAL TERMINALS DEER PARK,TX 10 MID000724931 MICHIGAN DISPOSAL, INC. MID000724911 HERITAGE ENVIRONMENTAL SERVICES INDIANAPOLIS,IN 9 9 11 IND093219012 HERITAGE ENVIRONMENTAL SERVICES INDIANAPOLIS,IN 9 9 11 11 IND093219012 HERITAGE ENVIRONMENTAL SERVICES INDIANAPOLIS,IN 9 9 11 11 11 11 11 11			ELF ATOCHEM NORTH AMERICA, INC		118,820
10 MID009724831 MICHIGAN DISPOSAL, INC. BELLEVILLE,MI 11 IND093219012 HERITAGE ENVIRONMENTAL SERVICES INDIANAPOLIS,IN 9 9 12 12 12 12 12 12	. 9	TXD073912974	INTERCONTINENTAL TERMINALS		106,482
11 INDO93219012	10	MID000724831	MICHIGAN DISPOSAL, INC.	1	96,320
12	` 11	IND093219012	HERITAGE ENVIRONMENTAL SERVICES		96,013
13	12	ALD000622464	CHEMICAL WASTE MANAGEMENT INC		83,001
14 ALD981020894 FISHER INDUSTRIAL SERVICE, INC TXD068265067 ARCO CHEMICAL COMPANY - BAYPORT PASADENA,TX 6: INDUO5462601 TY STEEL COMPANY EAST CHICAGO,IN 6: AST CHICAG	13		1		81,048
15	14	ALD981020894	FISHER INDUSTRIAL SERVICE, INC	■	80,071
16	15				65,744
17 TXD000742304 GIBRALTAR CHEMICAL RESOURCES WINONA,TX 5:	16				64,654
18	17	1 .			58,013
19	18				56,631
20	19				52,825
21 ARD069748192 22 NYD980536288 23 MID027637693 24 PRD980526180 25 KYD053348108 26 ILD005174404 27 NJD002200046 27 NJD002200046 28 ALD070513767 30 NYD00068606 31 WID098547854 32 NJD001700707 33 LAD079464095 34 CHD000724088 35 NJD002173946 36 PAD002375376 37 TXD008080533 38 OHD004218673 39 CA7170090016 30 CA7170090016 30 CA7170090016 40 ORD991281460 40 ORD991281460 40 ORD991281460 40 ORD991281460 40 CAD981166002 42 PAD990753089 43 NJD00614666 46 TXD066382559 46 HD006072408 47 NJD0061037 48 OHD060650967 49 IND0066203774 49 IND006250967 40 ORD9916037 40 ORD991281460 40 TXD068038257 40 ORD991281460 40 TXD068038257 40 ORD991281460 40 TXD068038259 41 NJD00610103 42 PAD90075008 43 NJD00610103 44 CAD08618298 45 MID006014666 46 TXD066382559 47 NJD00216103 48 OHD066203774 49 IND006050967 41 CAD08618298 40 ORD991281460 40 TXD068038257 40 ORD991281460 40 TXD068038257 40 ORD991281460 41 TXD068038259 42 PAD990753089 43 NJD986577195 44 LAD000618298 45 MID006014666 46 TXD066382559 47 NJD00216103 48 OHD066203774 49 IND006050967 41 CAD08618298 40 ORD991281460 41 TXD068038259 41 NJD002016103 42 PAD990753089 43 NJD986577195 44 LAD000618298 45 MID006014666 46 TXD066382559 47 NJD002016103 48 OHD046203774 49 IND006050967 41 CAD881168002 42 PAD990753089 43 NJD986577195 44 LAD000618298 45 MID006014666 46 TXD066382559 47 NJD002016103 48 OHD046203774 49 IND006050967 40 ORD991281460 40 ORD991281460 40 CAD981186002 40 ORD991281460 41 CAD00618298 42 PAD990753089 43 NJD986577195 44 LAD006618298 45 MID006014666 46 TXD066382559 47 NJD002016103 48 OHD046203774 49 IND002016103	20	NJD991291105	S & W WASTE, INC.		51,841
22 NYD980536288 E I DUPONT DE NEMOURS & CO NIAGARA FALLS,NY 55 23 MID027637693 LAKESHORE ELECTRO-PLATE INC BENTON HARBOR,MI 55 24 PRD980526180 ANTILLES ELECTRO-PLATING BAYAMON,PR 44 25 KYD053348108 SAFETY-KLEEN CORP. NEW CASTLE,KY 44 26 ILD005174404 TEEPAK INC DANVILLE,IL 42 27 NJD002200046 CYCLE CHEM INC ALD070513767 ARTALLA,AL 44 28 ALD070513767 M & M CHEMICAL COMPANY ATTALLA,AL 44 29 IND040289357 DANA CORPORATION PC PRODUCTS DIVISION HAGERSTOWN,IN 33 31 WID098547854 MANEUSER-BUSCH INC BALDWINSVILLE,NY 34 32 NJD001700707 MONSANTO COMPANY BRIDGEPORT,NJ 36 33 LAD079464095 LAIDLAW ENVIRONMENTAL SERVICES CROWLEY, LA 33 34 OHD000424088 CO POMPTON LAKES,NJ 34 35 NJD002173946 U.S. STEEL CORPORATION FAIRLESS WORKS	21				51,560
23 MID027637693 LAKESHORE ELECTRO-PLATE INC BENTON HARBOR,MI 55 24 PRD980526180 ANTILLES ELECTROPLATING BAYAMON,PR 44 25 KYD053348108 SAFETY-KLEEN CORP. NEW CASTLE,KY 42 26 ILD005174404 TEEPAK INC DANVILLE,IL 44 27 NJD002200046 CYCLE CHEM INC ELIZABETH,NJ 44 29 IND040289357 M& M CHEMICAL COMPANY ATTALLA,AL 44 30 NYD000688606 ANHEUSER-BUSCH INC BALDWINSVILLE,NY 38 31 WID098547854 METRO RECYCLING AND DISPOSAL FACILITY FRANKLIN,WI 36 32 NJD001700707 MONSANTO COMPANY BRIDGEPORT,NJ 33 33 LAD079464095 LAIDLAW ENVIRONMENTAL SERVICES CROWLEY,LA 38 34 OHD000724088 EAGLEBROOK OF OHIO INC. CLEVELAND,OH 33 35 NJD002173946 EI DUPONT DENEMOURS & CO POMPTON LAKES,NJ 34 36 PAD002375376 LY STEEL CORPORATION FAIRLESS WORKS FAIRLESS		1 , ,	E I DUPONT DE NEMOURS & CO		50,747
24 PRD980526180 ANTILLES ELECTROPLATING BAYAMON,PR 44 25 KYD053348108 SAFETY-KLEEN CORP. NEW CASTLE,KY 44 26 ILD005174404 TEEPAK INC DANVILLE,IL 44 27 NJD002200046 CYCLE CHEM INC ELIZABETH,NJ 44 28 ALD070513767 M & M CHEMICAL COMPANY ATTALLA,AL 44 29 IND040289357 DANA CORPORATION PC PRODUCTS DIVISION HAGERSTOWN,IN 33 30 NYD000688606 ANHEUSER-BUSCH INC BALDWINSVILLE,NY 34 31 WID098547854 METRO RECYCLING AND DISPOSAL FACILITY FRANKLIN,WI 34 32 NJD001700707 MONSANTO COMPANY BRIDGEPORT,NJ 33 34 OHD000724088 EAGLEBROOK OF OHIO INC. CLEVELAND,OH 34 35 NJD002173946 EI DUPONT DENEMOURS & CO POMPTON LAKES,NJ 34 36 PAD002375376 U.S. STEEL CORPORATION FAIRLESS WORKS FAIRLESS HILLS,PA 34 37 TXD00680533 AMOCO OIL COMPANY REFINERY <			LAKESHORE ELECTRO-PLATE INC		50,400
25 KYD053348108 SAFETY-KLEEN CORP. 26 ILD005174404 TEEPAK INC 27 NJD002200046 CYCLE CHEM INC 28 ALD070513767 M & M CHEMICAL COMPANY ATTALLA,AL 29 IND040289357 DANA CORPORATION PC PRODUCTS DIVISION HAGERSTOWN,IN 30 NYD000688606 AMETRO RECYCLING AND DISPOSAL FACILITY FRANKLIN,WI 31 WID098547854 METRO RECYCLING AND DISPOSAL FACILITY FRANKLIN,WI 32 NJD001700707 MONSANTO COMPANY BRIDGEPORT,NJ 33 LAD079464095 LAIDLAW ENVIRONMENTAL SERVICES CROWLEY,LA 34 OHD000724088 EAGLEBROOK OF OHIO INC. 35 NJD002173946 EI DUPONT DENEMOURS & CO 36 PAD002375376 U.S. STEEL CORPORATION FAIRLESS WORKS FAIRLESS HILLS,PA 37 TXD008080533 AMOCO OIL COMPANY REFINERY TEXAS CITY,TX 38 OHD004218673 LTV STEEL CO., INC. (CLEVELAND-EAST) CLEVELAND,OH 39 CA7170090016 NAVAL AIR STATION NORTH ISLAND SAN DIEGO,CA 40 ORD991281460 BERGSOE METAL CORPORATION ST. HELENS,OR 41 CAD981166002 SACRAMENTO GAS LOAD CENTER PACIFIC GAS A SACRAMENTO,CA 42 PAD990753089 GENERAL BATTERY CORPORATION READING,PA 43 NJD986577195 AMERICAN REF-FUEL CONSTRUCT NEWARK,NJ 44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON,LA 45 MID006014666 LACKS INDUSTRIES INC 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND,OH 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND,IN	24				45,717
1.0005174404					43,408
27	26		•		42,191
28 ALD070513767 M & M CHEMICAL COMPANY ATTALLA, AL 4 29 IND040283357 DANA CORPORATION PC PRODUCTS DIVISION HAGERSTOWN, IN 31 30 NYD000688606 ANHEUSER-BUSCH INC BALDWINSVILLE, NY 34 31 WID098547854 METRO RECYCLING AND DISPOSAL FACILITY FRANKLIN, WI 36 32 NJD001700707 MONSANTO COMPANY BRIDGEPORT, NJ 33 33 LAD079464095 LAIDLAW ENVIRONMENTAL SERVICES CROWLEY, LA 39 34 OHD000724088 EAGLEBROOK OF OHIO INC. CLEVELAND, OH 34 35 NJD002173946 EI DUPONT DENEMOURS & CO POMPTON LAKES, NJ 34 36 PAD002375376 U.S. STEEL CORPORATION FAIRLESS WORKS FAIRLESS HILLS, PA 34 37 TXD008080533 AMOCO OIL COMPANY REFINERY TEXAS CITY, TX 33 38 OHD004218673 LTV STEEL CO., INC. (CLEVELAND-EAST) CLEVELAND, OH 37 39 CA7170090016 NAVAL AIR STATION NORTH ISLAND SAN DIEGO, CA 37 41 C	27	NJD002200046	CYCLE CHEM INC		41,457
29 IND040289357 DANA CORPORATION PC PRODUCTS DIVISION HAGERSTOWN,IN 33 30 NYD000688606 ANHEUSER-BUSCH INC BALDWINSVILLE,NY 36 31 WID098547854 METRO RECYCLING AND DISPOSAL FACILITY FRANKLIN,WI 36 32 NJD001700707 MONSANTO COMPANY BRIDGEPORT,NJ 38 33 LAD079464095 LAIDLAW ENVIRONMENTAL SERVICES CROWLEY,LA 38 34 OHD000724088 EAGLEBROOK OF OHIO INC. CLEVELAND,OH 34 35 NJD002173946 EI DUPONT DENEMOURS & CO POMPTON LAKES,NJ 34 36 PAD002375376 U.S. STEEL CORPORATION FAIRLESS WORKS FAIRLESS HILLS,PA 34 37 TXD008080533 AMOCO OIL COMPANY REFINERY TEXAS CITY,TX 33 38 OHD004218673 LTV STEEL CO., INC. (CLEVELAND-EAST) CLEVELAND,OH 37 39 CA7170090016 BACRAMENTO GAS LOAD CENTER PACIFIC GAS A SACRAMENTO,CA 36 41 CAD981166002 SACRAMENTO GAS LOAD CENTER PACIFIC GAS A SACRAMENTO,CA 36			M & M CHEMICAL COMPANY		41,422
NYD000688606	29		I .		38,280
31 WID098547854 METRO RECYCLING AND DISPOSAL FACILITY FRANKLIN, WI	30		1		36,669
NJD001700707 MONSANTO COMPANY BRIDGEPORT,NJ 33	31	WID098547854			36,333
CADD79464095	32	NJD001700707			35,789
34 OHD000724088 EAGLEBROOK OF OHIO INC. 35 NJD002173946 EI DUPONT DENEMOURS & CO 36 PAD002375376 U.S. STEEL CORPORATION FAIRLESS WORKS FAIRLESS HILLS, PA 37 TXD008080533 AMOCO OIL COMPANY REFINERY TEXAS CITY, TX 38 OHD004218673 LTV STEEL CO., INC. (CLEVELAND-EAST) CLEVELAND, OH 39 CA7170090016 NAVAL AIR STATION NORTH ISLAND SAN DIEGO, CA 40 ORD991281460 BERGSOE METAL CORPORATION ST. HELENS, OR 41 CAD981166002 SACRAMENTO GAS LOAD CENTER PACIFIC GAS A SACRAMENTO, CA 42 PAD990753089 GENERAL BATTERY CORPORATION READING, PA 43 NJD986577195 AMERICAN REF-FUEL CONSTRUCT NEWARK, NJ 44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON, LA 45 MID006014666 LACKS INDUSTRIES INC 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN, TX 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK, NJ 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND, OH 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND, IN	33	LAD079464095			35,220
NJD002173946	34		EAGLEBROOK OF OHIO INC.		34,995
36 PAD002375376 U.S. STEEL CORPORATION FAIRLESS WORKS FAIRLESS HILLS,PA 37 TXD008080533 AMOCO OIL COMPANY REFINERY TEXAS CITY,TX 32 38 OHD004218673 LTV STEEL CO., INC. (CLEVELAND-EAST) CLEVELAND,OH 33 39 CA7170090016 NAVAL AIR STATION NORTH ISLAND SAN DIEGO,CA 35 40 ORD991281460 BERGSOE METAL CORPORATION ST. HELENS,OR 36 41 CAD981166002 SACRAMENTO GAS LOAD CENTER PACIFIC GAS A SACRAMENTO,CA 36 42 PAD990753089 GENERAL BATTERY CORPORATION READING,PA 25 43 NJD986577195 AMERICAN REF-FUEL CONSTRUCT NEWARK,NJ 25 44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON,LA 26 45 MID006014666 LACKS INDUSTRIES INC GRAND RAPIDS,MI 26 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 26 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 27 48 OHD046203774 LTV	35			POMPTON LAKES,NJ	34,928
38			U.S. STEEL CORPORATION FAIRLESS WORKS		34,223
38 OHD004218673 LTV STEEL CO., INC. (CLEVELAND-EAST) CLEVELAND, OH 33 39 CA7170090016 NAVAL AIR STATION NORTH ISLAND SAN DIEGO, CA 35 40 ORD991281460 BERGSOE METAL CORPORATION ST. HELENS, OR 36 41 CAD981166002 SACRAMENTO GAS LOAD CENTER PACIFIC GAS A SACRAMENTO, CA 36 42 PAD990753089 GENERAL BATTERY CORPORATION READING, PA 25 43 NJD986577195 AMERICAN REF-FUEL CONSTRUCT NEWARK, NJ 25 44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON, LA 26 45 MID006014666 LACKS INDUSTRIES INC GRAND RAPIDS, MI 26 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN, TX 26 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK, NJ 28 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND, OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND, IN 27			AMOCO OIL COMPANY REFINERY		32,577
40 ORD991281460 BERGSOE METAL CORPORATION ST. HELENS,OR 30 41 CAD981166002 SACRAMENTO GAS LOAD CENTER PACIFIC GAS A SACRAMENTO,CA 30 42 PAD990753089 GENERAL BATTERY CORPORATION READING,PA 25 43 NJD986577195 AMERICAN REF-FUEL CONSTRUCT NEWARK,NJ 25 44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON,LA 26 45 MID006014666 LACKS INDUSTRIES INC GRAND RAPIDS,MI 26 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 26 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 28 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND,OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND,IN 27			LTV STEEL CO., INC. (CLEVELAND-EAST)	CLEVELAND, OH	31,593
40 ORD991281460 BERGSOE METAL CORPORATION ST. HELENS,OR 30 41 CAD981166002 SACRAMENTO GAS LOAD CENTER PACIFIC GAS A SACRAMENTO,CA 30 42 PAD990753089 GENERAL BATTERY CORPORATION READING,PA 28 43 NJD986577195 AMERICAN REF-FUEL CONSTRUCT NEWARK,NJ 28 44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON,LA 28 45 MID006014666 LACKS INDUSTRIES INC GRAND RAPIDS,MI 28 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 28 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 28 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND,OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND,IN 27			NAVAL AIR STATION NORTH ISLAND		31,120
42 PAD990753089 GENERAL BATTERY CORPORATION READING,PA 29 43 NJD986577195 AMERICAN REF-FUEL CONSTRUCT NEWARK,NJ 29 44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON,LA 28 45 MID006014666 LACKS INDUSTRIES INC GRAND RAPIDS,MI 28 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 28 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 28 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND,OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND,IN 27			BERGSOE METAL CORPORATION	ST. HELENS,OR	30,897
42 PAD990753089 GENERAL BATTERY CORPORATION READING,PA 43 NJD986577195 AMERICAN REF-FUEL CONSTRUCT NEWARK,NJ 28 44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON,LA 28 45 MID006014666 LACKS INDUSTRIES INC GRAND RAPIDS,MI 28 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 28 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 28 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND,OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND,IN 27					30,329
43 NJD986577195 AMERICAN REF-FUEL CONSTRUCT NEWARK,NJ 29 44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON,LA 28 45 MID006014666 LACKS INDUSTRIES INC GRAND RAPIDS,MI 28 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 28 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 28 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND,OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND,IN 27		PAD990753089			29,547
44 LAD000618298 CECOS INTERNATIONAL LIVINGSTON,LA 28 45 MID006014666 LACKS INDUSTRIES INC GRAND RAPIDS,MI 28 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 28 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 28 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND,OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND,IN 27				NEWARK,NJ	29,302
45 MID006014666 LACKS INDUSTRIES INC GRAND RAPIDS,MI 28 46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 28 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 28 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND,OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND,IN 27	,			LIVINGSTON,LA	28,795
46 TXD066362559 CHAPARREL STEEL COMPANY MIDLOTHIAN,TX 28 47 NJD002016103 ADVANCED FIBER TECHNOLOGIES HACKENSACK,NJ 28 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND,OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND,IN 27				GRAND RAPIDS,MI	28,673
47 NJD002016103 ADVANCED FIBER TECHNOLOGIES 48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES 50 SHADELAND, IN 27				MIDLOTHIAN,TX	28,470
48 OHD046203774 LTV STEEL CO., INC. (CLEVELAND-WEST) CLEVELAND, OH 27 49 IND006050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND, IN 27		1 1		HACKENSACK,NJ	28,030
49 INDO06050967 ELI LILLY & COTIPPECANOE LABORATORIES SHADELAND, IN 27				CLEVELAND,OH	27,739
FO 11115000007004 (EXXXAN) 511011111 511011111	. 1			SHADELAND,IN	27,503
LINDER, NO. 1 27	50	NJD062037031	EXXON BAYWAY REFINERY	LINDEN,NJ	27,155
			TOTAL		6,079,670

Notes:

- Columns may not sum due to rounding. CBI data are excluded from this exhibit.

Exhibit 3.14 Fifty Largest RCRA Hazardous Waste Receivers in the U.S., 1991

RANK	EPA ID	NAME	CITY	TONS RECEIVED	
1	CAD008274938	KAISER STEEL RESOURCES, INC.	FONTANA,CA	483,736	
2	NJD002385730	E.I. DUPONT-CHAMBERS WORKS	DEEPWATER,NJ	227,712	
3	PAD002395887	HORSEHEAD RESOURCE DEVELOPMENT CO INC	PALMERTON,PA	210,042	
4	ALD000622464	CHEMICAL WASTE MANAGEMENT INC	EMELLE, AL	206,869	
5	SCD991278607	MTM AMERICAS INC-HARDWICK DIVISION	LUGOFF,SC	175,413	
6	NYD049836679	CWM CHEMICAL SERVICES, INC.	MODEL CITY,NY	174,090	
7	IND078911146	CHEMICAL WASTE MGMT OF INDIANA	FORT WAYNE,IN	150,564	
13	LAD000777201	CHEMICAL WASTE MANAGEMENT	SULPHUR,LA	147,684	
9	MID000724831	MICHIGAN DISPOSAL, INC.	BELLEVILLE, MI	144,946	
10	ORD089452353	CHEMICAL WASTE MANAGEMENT OF THE NW	ARLINGTON, OR	132,549	
11	OKD065438376	U.S. POLLUTION CONTROL, INC.	WAYNOKA,OK	126,133	
12	KSD007482029	VULCAN MATERIALS COMPANY	WICHITA.KS	123,295	
13	CAT000646117	CHEMICAL WASTE MGMT INC/KETTLE	KETTLEMAN CITY,CA	122,674	
14	MID048090633	WAYNE DISPOSAL, INC.	BELLEVILLE,MI	111,015	
15	IND093219012	HERITAGE ENVIRONMENTAL SERVICES	INDIANAPOLIS,IN	92,211	
16	SCD070375985	GSX SERVICES OF SC INC.	PINEWOOD,SC	90,821	
17	ILD000805812	PEORIA DISPOSAL CO #1	PEORIA,IL	88,834	
18	IND980503890	HERITAGE ENVIRONMENTAL SERVICES	ROACHDALE,IN	85,560	
19	ILD010284248	CID RECYCLING & DISPOSAL FAC	CALUMET CITY.IL	82,904	
20	MOD029729688	HOLNAM INC./SAFETY-KLEEN	CLARKSVILLE,MO	80,771	
21	LAD981057706	MARINE SHALE PROCESSORS INC	AMELIA,LA	80,107	
22	OHD000724088	EAGLEBROOK OF OHIO INC.	CLEVELAND, OH	77,648	
23	MID980615298	PETRO-CHEM PROCESSING INC	DETROIT,MI	75,930	
24	SCD003368891	HOLNAM INC/SAFETY KLEEN	HOLLY HILL,SC	74,892	
25	CAT080011059	PETROLEUM RECYCLING CORPORATION	SIGNAL HILL,CA	73,062	
26	KSD980633259	SYSTECH ENVIRONMENTAL	FREDONIA,KS	71,668	
27	MID074259565	DYNECOL INC	DETROIT,MI	70,412	
28		LI O POLITICAL CONTROL INC. CRACCY MATH	KNOLLS,UT	69,613	
29	ARD981512270	ASH GROVE CEMENT CO ASH GROVE CEMENT CO ASH GROVE CEMENT PLANT CECOS INTERNATIONAL INC MILL SERVICE, INC YUKON PLANT RIVER CEMENT CO.	FOREMAN, AR	69,569	
30	KSD031203318	ASH GROVE CEMENT PLANT	CHANUTE,KS	67,588	
31	NYD080336241	ICECOS INTERNATIONAL INC	NIAGARA FALLS,NY	64,783	
32	PAD004835146	MILL SERVICE, INC YUKON PLANT	YUKON,PA	63,482	
33.	MOD050232560	RIVER CEMENT CO.	FESTUS,MO	63,081	
34	PAD010154045	ENVIRITE CORPORATION	YORK,PA	60,877	
35	ILD000666206	ENVIRITE CORP	HARVEY,IL	60,059	
36	MND006148092	GOPHER SMELTING & REFINING CO	EAGAN,MN	58,890	
37	MAD053452637	CLEAN HARBORS OF BRAINTREE	BRAINTREE, MA	53,117	
38	KYD053348108	SAFETY-KLEEN CORP.	NEW CASTLE,KY	50,815	
39	NVT330010000	U.S. ECOLOGY	BEATTY, NV	48,939	
40	NJD002182897	SAFETY KLEEN CORP	LINDEN,NJ	48,256	
41	TXD083472266	ARCO CHEMICAL COMPANY/CHANNELVIEW	CHANNELVIEW,TX	47,982	
42	ALD070513767	M & M CHEMICAL COMPANY	ATTALLA, AL	47,582	
43	MID981200835	SYSTECH ENVIRONMENTAL/LAFARGE CORP.	ALPENA,MI	46,735	
44	IND005081542	ESSROC MATERIALS, INC	LOGANSPORT,IN	46,668	
45	WID000808824	HYDRITE CHEMICAL COMPANY-EAST	COTTAGE GROVE, WI	46,108	
46	TXD000742304	GIBRALTAR CHEMICAL RESOURCES	WINONA,TX	45,053	
47	ILD980613913	SAFETY KLEEN ENVIROSYSTEMS CO	DOLTON,IL	45,041	
48	CAD008302903	OIL & SOLVENT PROCESS COMPANY	AZUSA,CA	43,963	
49	IND006419212	LONE STAR INDUSTRIES INC	GREENCASTLE,IN	42,159	
50	PAD002389559	KEYSTONE CEMENT COMPANY	BATH,PA	40,977	
				4,812,877	
101AL 4,612,0					

Notes:

- Columns may not sum due to rounding. CBI data are excluded from this exhibit.

4.0 IMPORTS AND EXPORTS

Exhibits 4.1 and 4.2 present hazardous waste imports and exports, by region and by state, respectively. Only those quantities of waste that enter or leave the state are counted in this category. Exhibit 4.1 shows Region 5 is the largest net exporting region (1.1 million tons), followed by Region 4 (716 thousand tons). Region 5 is the largest net importing region (1.3 million tons), followed by Region 4 (716 thousand tons). Exhibit 4.2 shows New Jersey is the largest net exporting state (400 thousand tons), followed by Pennsylvania (355 thousand tons). Ohio, with 399 thousand tons, is the largest net importing state, followed by followed by New Jersey (287 thousand tons).

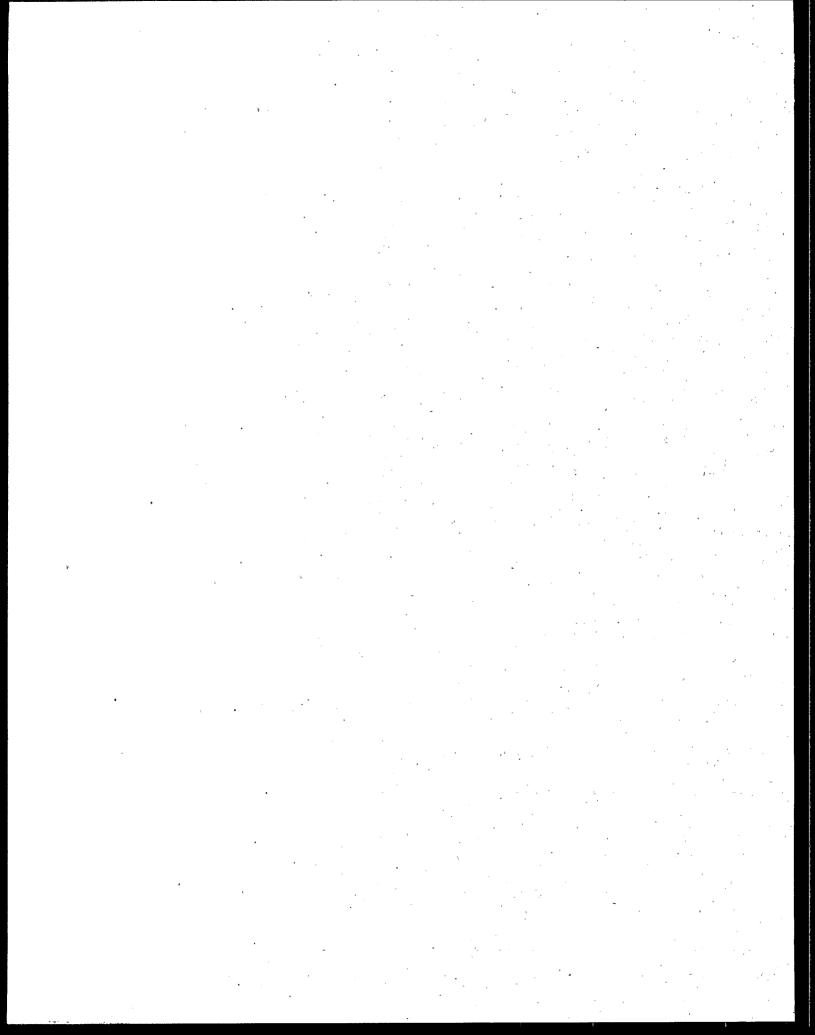
Exhibit 4.1 RCRA Hazardous Waste Imports and Exports, by EPA Region, 1991

EPA REGION	TOTAL IMPORTS (TONS)	TOTAL EXPORTS (TONS)	NET IMPORTS (IMPORTS- EXPORTS)	
1	53,130	406,567	-353,437	
2	460,413	654,241	-193,828	
3	318,512	559,505	-240,993	
4	716,441	743,601	-27,160	
5	1,258,354	1,098,263	160,091	
6	653,229	649,187	4,042	
7	305,390	169,302	136,088	
8	69,712	74,763	-5,050	
9	82,505	210,594	-128,089	
10	129,132	145,291	-16,159	
TOTAL	4,046,819	4,711,314	-664,496	

Exhibit 4.2 RCRA Hazardous Waste Imports, Exports, and Net difference between Imports and Exports by State, 1991

1991					
STATE	IMPORTS (TONS)	EXPORTS (TONS)	NET		
	, , , , , , , , , , , , , , , , , , ,		(IMPORTS-EXPORTS)		
ALABAMA	270,803	162,844	107,959		
ALASKA	0	2,566	-2,566		
ARIZONA -	4,913	34,739	-29,826		
ARKANSAS ,	112,703	106,225	6,478		
CALIFORNIA	32,411	168,343	-135,932		
COLORADO	2,340	42,874	-40,534		
CONNECTICUT	15,312	107,054	-91,742		
DELAWARE	400	. 18,513	-18,113		
DISTRICT OF COLUMBIA	. 0	934	-934		
FLORIDA	36,123	62,668	-26,545		
GEORGIA	24,620	89,196	-64,575		
GUAM	. 2	140	-138		
HAWAII	345	1,960	-1,615		
IDAHO	28,877	3,160	25,718		
ILLINOIS	253,369	276,198	-22,829		
INDIANA	286,458	235,226	51,231		
IOWA	2,080	22,354	-20,273		
KANSAS	144,488	34,577	109,911		
KENTUCKY	106,362	145,420	-39,058		
LOUISIANA	252,643	173,087	79,557		
MAINE	380	11,685	-11,305		
MARYLAND	8,353	72,737	-64,385		
MASSACHUSETTS	27,114	224,449	-197,335		
MICHIGAN	246,306	224,851	21,455		
MINNESOTA	69,511	43,567	25,944		
MISSISSIPPI	1,715	35,544	-33,829		
MISSOURI	144,603	97,038	47,565		
MONTANA	0	8,435	-8,435		
NEBRASKA	14,219	15,333	-1,114		
NEVADA	44,834	3,391	41,444		
NEW HAMPSHIRE	0	11,130	-11,130		
NEW JERSEY	287,386	399,733	-112,347		
NEW MEXICO	32	12,588	-12,555		
NEW YORK	172,770	192,148	-19,378		
NORTH CAROLINA	27,575	75,682	-48,107		
NORTH DAKOTA	272	3,415	-3,143		
OHIO	398,718	245,565	153,153		
OKLAHOMA	128,046	66,969	61,077		
OREGON	80,677	18,366	62,311		
PENNSYLVANIA	278,929	355,403	-76,475		
PUERTO RICO	256	62,039	-61,782		
RHODE ISLAND	9,020	14,780	-5,761		
SOUTH CAROLINA	197,588	70,349	127,239		
SOUTH DAKOTA	114	1,249	-1,135		
TENNESSEE	51,654	101,897	-50,243		
TEXAS	159,805	290,319	-130,514		
TRUST TERRITORIES	0	2,022	-2,022 49 829		
UTAH	66,986	17,148	49,839		
VERMONT	1,305	37,470	-36,164		
VIRGIN ISLANDS	0	321	-321 -31,609		
VIRGINIA	27,226	58,835			
WASHINGTON	19,577	121,199	-101,621		
WEST VIRGINIA	3,604	53,083	-49,479		
WISCONSIN	3,993	72,856	-68,863 -1,642		
WYOMING	0	1,642			
TOTAL	4,046,819	4,711,314	-664,496		

APPENDIX A



SYSTEM TYPE CODES

Code	System type	Code	System type
META	LS RECOVERY (FOR REUSE)	M072	Cyanide destruction followed by chemical
			precipitation
MO11	High temperature metals recovery	M073	Cyanide destruction only
M012	Retorting	M074	Chemical oxidation followed by chemical
1012 1013	Secondary smelting	1.107.	precipitation
		M075	Chemical oxidation only
1014	Other metals recovery for reuse: e.g., ion	M076	Wet air oxidation
	exchange, reverse osmosis, acid leaching,		
	etc. (Specify in Comments)	M077	
A019	Metals recovery - type unknown	M078	Other aqueous inorganic treatment: e.g.,
		•	ion exchange, reverse osmosis, etc.
OLV	ENTS RECOVERY		(Specify in Comments)
3		M079	Aqueous inorganic treatment - type
4 021	Fractionation/distillation		unknown
1022	Thin film evaporation		
1022	Solvent extraction	AOUE	OUS ORGANIC TREATMENT
		AQUE	OOD ORGANIC TREATMENT
1024	Other solvent recovery (Specify in	N6001	Dialaciani turaturant
	Comments)	M081	Biological treatment
1029	Solvents recovery - type unknown	M082	Carbon adsorption
		M083	Air/steam stripping
THE	R RECOVERY	M084	Wet air oxidation
		M085	Other aqueous organic treatment (Specify
1031	Acid regeneration		in Comments)
1032	Other recovery: e.g., waste oil recovery,	M089	Aqueous organic treatment - type unknow
4.	nonsolvent organics recovery, etc.	*	
	(Specify in Comments)	AOUE	OUS ORGANIC AND INORGANIC
M039	Other recovery - type unknown		TMENT
MOSS	Other recovery - type unknown	IKEA	INIDICI
NCTN	VERATION	M091	Chemical precipitation in combination wit
цусц	CRATION	101051	biological treatment
	w	3.4000	
M041	Incineration - liquids	M092	Chemical precipitation in combination wit
M042	Incineration - sludges	52222	carbon adsorption
M043	Incineration - solids	M093	Wet air oxidation
M044	Incineration - gases	M094	Other organic/inorganic treatment (Specif
M049	Incineration - type unknown		in Comments)
		M099	Aqueous organic and inorganic treatment
ENER	RGY RECOVERY (REUSE AS FUEL)	5	type unknown
WI 122I			
MO51	Energy recovery - liquids	ST IID	GE TREATMENT
M051		SECD	GE IREATMENT
M052		14101	Cludgo dovinto-i
M053		M101	Sludge dewatering
M059	Energy recovery - type unknown	M102	
		M103	•
FUEL	BLENDING	M104	
,		M109	Sludge treatment - type unknown
M061	Fuel blending		
	· · · · · · · · · · · · · · · · · · ·	STAR	ILIZATION
AOTII	EOUS INORGANIC TREATMENT		
, QUI	ECOS HORGANIC IMPAINEMI	M111	Stabilization/Chemical fixation using
	on 1 1 0 11 11 1 1 1	IATITI	
M071	Chrome reduction followed by chemical precipitation	M112	cementitious and/or pozzolanic materials Other stabilization (Specify in Comments)

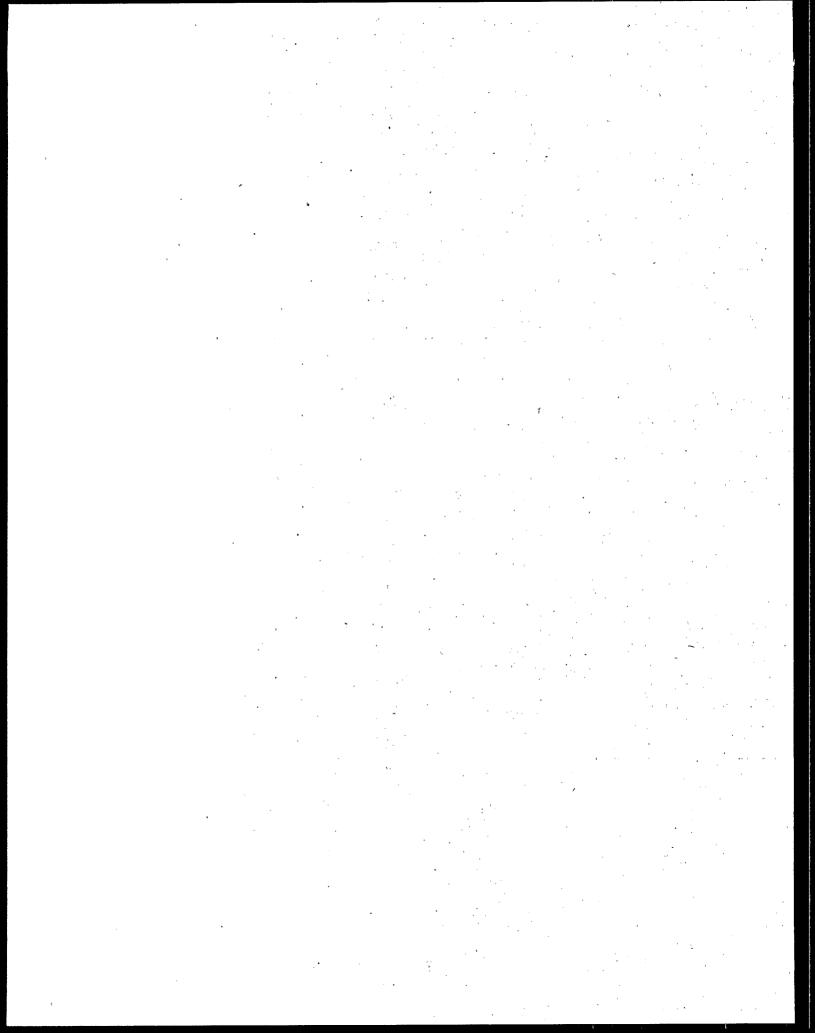
SYSTEM TYPE CODES (Continued)

Code	System type	Code	System type	· •
M119	Stabilization - type unknown			*
OTHE	R TREATMENT		•	
M121	Neutralization only			
M122	Evaporation only		•	1
M123	Settling/clarification only			
M124	Phase separation (e.g., emulsion breaking,	•	À	
	filtration) only			
M125	Other treatment (Specify in Comments)	•		
M129	Other treatment - type unknown	***		
DISPO	SAL			
M131	Land treatment/application/farming			
M132	Landfill	, ,		•
M133	Surface impoundment (to be closed as a landfill)			
M134	Deepwell/underground injection			
M135	Direct discharge to sewer/POTW (no prior treatment)		,	
M136	Direct discharge to surface water under NPDES (no prior treatment)		•	
M137	Other disposal (Specify in Comments)		•	

TRANSFER FACILITY STORAGE

M141 Transfer facility storage, waste was shipped off site with no on-site TDR activity

APPENDIX B



EPA HAZARDOUS WASTE CODES

		-,,	
Code	Waste description	Code	Waste description
D001	Ignitable waste	D023	o-Cresol
D002	Corrosive waste	D024	m-Cresol
D003	Reactive waste	D025	p-Cresol
D004	Arsenic	D026	Cresol
D005	Barium	D027	1,4-Dichlorobenzene
D006	Cadmium	D028	1,2-Dichloroethane
D007	Chromium	D029	1,1-Dichloroethylene
· D 008	Lead	D030	2,4-Dinitrotoluene
D009	Mercury	D031	Heptachlor (and its epoxide)
D010	Selenium	D032	Hexachlorobenzene
D011	Śilver	D033	Hexachlorobutadiene
D012	Endrin(1,2,3,4,10,10-hexachloro-1,7-epoxy-	D034	Hexachloroethane
	1,4,4a,5,6,7,8,8a-octahydro-1,4-endoendo- 5,8-dimeth-ano-naphthalene)	D035	Methyl ethyl ketone
D013	Lindane (1,2,3,4,5,6-hexa-	D036	Nitrobenzene
D014	Motherwood of 1.1.1 trichlers 2.2 his fa	D037	Pentachlorophenol
D014	Methoxychlor (1,1,1-trichloro-2,2-bis[p-methoxyphenyl] ethane)	D038	Pyridine
D015	Toxaphene (C ₁₀ H ₁₀ Cl ₈ Technical chlorinated camphene, 67-69 percent	D039	Tetrachloroethylene
*,	chlorine)	D 040	Trichlorethylene
D016	2,4-D (2,4-Dichlorophenoxyacetic acid)	D041	2,4,5-Trichlorophenol
D017	2,4,5-TP Silvex (2,4,5- Trichlorophenoxypropionic acid)	D042	2,4,6-Trichlorophenol
D018	Benzene	D043	Vinyl chloride
		A constant	
D019	Carbon tetrachloride		
D020	Chlordane		
D021	Chlorobenzene		
D022	Chloroform		

EPA HAZARDOUS WASTE CODES (Continued)

Code	Waste description	Code	Waste description
 			
HAZA	RDOUS WASTE FROM NONSPECIFIC CES		solvents: cresols, cresylic acid, and nitrobenzene; and the still bottoms from the recovery of these solvents; all spent
F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichlorethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from	F005	solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. The following spent nonhalogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine,
	the recovery of these spent solvents and spent solvent mixtures.		benzene, 2-ethoxyethanol, and 2- nitropropane; all spent solvent mixtures/blends containing, before use, a
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2- trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2, trichloroethane; all spent solvent		total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
	mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin,
F003	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent nonhalogenated solvents; and all spent solvent mixtures/blends	F007	zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum. Spent cyanide plating bath solutions from electroplating operations. Plating bath residues from the bottom of
	containing, before use, one or more of the above nonhalogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in		plating baths from electroplating operations in which cyanides are used in the process.
	F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	F009	Spent stripping and cleaning bath solutions from electroplating operations in which cyanides are used in the process.
F004	The following spent nonhalogenated	F010	Quenching bath residues from oil baths

		1. 1	
Code	Waste description	Code	Waste description
		1 1	
	from metal heat treating operations in	·	carbon from hydrogen chloride
	which cyanides are used in the process.		purification) from the production of
			materials on equipment previously used
F011	Spent cyanide solutions from slat bath pot		for the production or manufacturing use
	cleaning from metal heat treating		(as a reactant, chemical intermediate, or
	operations.		component in a formulating porcess) of
		• • •	tri- and tetrachlorophenols. (This listing
F012	Quenching wastewater treatment sludges		does not include wastes from equipment
	from metal heat treating operations in		used only for the production or use of
7	which cyanides are used in the process.		hexachlorophene from highly purified
			2,4,5-trichlorophenol.)
F019	Wastewater treatment sludges from the	V	
100	chemical conversion coating of aluminum	F024	Process wastes including, but not limited
	except from zirconium phosphating in		to, distillation residues, heavy ends, tars,
	aluminum can washing when such		and reactor clean-out wastes, from the
	phosphating is an exclusive conversion		production of certain chlorinated aliphatic
	coating process.		hydrocarbons by free radical catalyzed
	provide provid	* 4.	processes. These chlorinated aliphatic
F020	Wastes (except wastewater and spent		hydrocarbons are those having carbon
1 020	carbon from hydrogen chloride		chain lengths ranging from one to and
	purification) from the production or		
	manufacturing use (as a reactant,		including five, with varying amounts and
	chemical intermediate, or component in a		positions of chlorine substitution. (This
	formulating process) of tri- or		listing does not include wastewaters,
	tetrachlorophenol or of intermediates		wastewater treatment sludge, spent
		•	catalysts, and wastes listed in Sections
	used to produce their pesticide		261.31.or 261.32)
-	derivatives. (This listing does not include	TOOF	Condemnal Balance and Change
	wastes from the production of	F025	Condensed light ends, spent filters and
	hexachlorophene from highly purified		filter aids, and spent desiccant wastes
	2,4,5-trichlorophenol.)		from the production of certain
T004			chlorinated aliphatic hydrocarbons, by
F021	Wastes (except wastewater and spent	* 4.	free radical catalyzed processes. These
	carbon from hydrogen chloride		chlorinated aliphatic hydrocarbons are
	purification) from the production or		those having carbon chain lengths ranging
- *	manufacturing use (as a reactant,		from one, to and including five, with
	chemical intermediate, or component in a		varying amounts and positions of chlorine
	formulating process) of	,	substitution.
	pentachlorophenol, or of intermediates		
	used to produce derivatives.	F026	Wastes (except wastewater and spent
			carbon from hydrogen chloride
F022	Wastes (except wastewater and spent		purification) from the production of
	carbon from hydrogen chloride		materials on equipment previously used
-	purification) from the manufacturing use	1	for the manufacturing use (as a reactant,
	(as a reactant, chemical intermediate, or		chemical intermediate, or component in a
	component in a formulating process) of	r .	formulating process) of tetra-, penta-, or
	tetra-, penta-, or hexachlorobenzenes		hexachlorobenzene under alkaline
-	under alkaline conditions.		conditions.
		* -	
F023	Wastes (except wastewater and spent	F027	Discarded unused formulations containing
			•

Code	Waste description	Code	Waste description
	tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these	F035	Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving
	chlorophenols. (This listing does not		processes generated at plants that use
	include formulations containing hexachlorophene synthesized from	. '	inorganic preservatives containing arsenic or chromium. This listing does not
	prepurified 2,4,5-trichlorophenol as the sole component.)		include K001 bottom sediment sludge from the treatment of wastewater from
F028	Residues resulting from the incineration	, ,	wood preserving processes that use creosote and/or pentachlorophenol.
FU20	or thermal treatment of soil contaminated		•
	with EPA hazardous waste nos. F020, F021, F022, F023, F026, and F027.	F037	Petroleum refinery primary oil/water/solids separation sludge - Any sludge generated from the gravitational
F032	Wastewaters, process residuals,		separation of oil/water/solids during the
	preservative drippage, and spent formulations from wood preserving		storage or treatment of process wastewaters and oily cooling wastewaters
	processes generated at plants that		from petroleum refineries. Such sludges
	currently use, or have previously used, chlorophenolic formulations [except		include, but are not limited to, those generated in oil/water/solids separators; tanks and impoundments; ditches and
	potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with Section 261.35 (i.e., the	•	other conveyances; sumps; and storm water units receiving dry weather flow.
	newly promulgated equipment cleaning or replacement standards), and where the	· ·	Sludges generated in storm water units that do not receive dry weather flow,
	generator does not not resume or initiate use of chlorophenolic formulations]. (This listing does not include K001		sludges generated in aggressive biological treatment units as defined in Section 261.31(b)(2)(including sludges generated
	bottom sediment sludge from the treatment of wastewater from wood		in one or more additional units after wastewaters have been treated in
	preserving processes that use creosote and/or pentachlorophenol.)		aggressive biological treatment units), and K051 wastes are exempted from this
		,	listing.
F034	Wastewaters, process residuals, preservative drippage, and spent		
	formulations from wood preserving		
	processes generated at plants that use creosote formulations. This listing does		
	not include K001 bottom sediment sludge from the treatment of wastewater from		
	wood preserving processes that use creosote and/or pentachlorophenol.		
	crosore and/or pentacinorophenor.		

Code	Waste description	Code	Waste description
,			
F038	Petroleum refinery secondary (emulsified)		pigments.
	oil/water/solids separation sludge - Any		Pigmoniu.
	sludge and/or float generated from the	K004	Wastewater treatment sludge from the
	physical and/or chemical separation of		production of zinc yellow pigments.
,	oil/water/solids in process wastewaters	1.5	Production of the years of Production
	and oily cooling wastewaters from	K005	Wastewater treatment sludge from the
	petroleum refineries. Such wastes		production of chrome green pigments.
	include, but are not limited to, all sludges		Programme Brown Prigaments
, ,	and floats generated in induced air	K006	Wastewater treatment sludge from the
	flotation (IAF) units, tanks and		production of chrome oxide green
	impoundments, and all sludges generated		pigments (anhydrous and hydrated).
	in DAF units. Sludges generated in		Figure Camp of one and Lyuranou).
,	stormwater units that do not receive dry	K007	Wastewater treatment sludge from the
	weather flow, sludges generated in		production of iron blue pigments.
	aggressive biological treatment units as		Francisco of more bibliographics
	defined in Section 261.31(b)(2) (including	K008	Oven residue from the production of
	sludges generated in one or more		chrome oxide green pigments.
٠	additional units after wastewaters have		
	been treated in aggressive biological	K009	Distillation bottoms from the production
	treatment units), and F037, K048, and		of acetaldehyde from ethylene.
*	K051 wastes are exempted from this	• •	
	listing.	K010	Distillation side cuts from the production
			of acetaldehyde from ethylene.
F039	Leachate resulting from the treatment,	· .	or mountain, as more subjection.
	storage, or disposal of wastes classified by	K011	Bottom stream from the wastewater
-,	more than one waste code under Subpart	-	stripper in the production of acrylonitrile.
	D, or from a mixture of wastes classified		
	under Subparts C and D of this part.	K013	Bottom stream from the acetonitrile
	(Leachate resulting from the management		column in the production of acrylonitrile.
* .	of one or more of the following EPA		
	Hazardous Wastes and no other	K014	Bottoms from the acetonitrile purification
	hazardous wastes retains its hazardous		column in the production of acrylonitrile.
	waste code(s): F020, F021, F022, F023,		
4	F026, F027, and/or F028.)	K015	Still bottoms from the distillation of
· ·			benzyl chloride.
HAZA	RDOUS WASTE FROM SPECIFIC		
SOUR		K016	Heavy ends or distillation residues from
			the production of carbon tetrachloride.
K001	Bottom sediment sludge from the	, in the second	
	treatment of wastewaters from wood	K017	Heavy ends (still bottoms) from the
	preserving processes that use creosote		purification column in the production of
-	and/or pentachlorophenol.	7	epichlorohydrin.
		, ,	
K002	Wastewater treatment sludge from the	K018	Heavy ends from the fractionation
	production of chrome yellow and orange		column in ethyl chloride production.
	pigments.		
	- -		
		K019	Heavy ends from the distillation of
K003	Wastewater treatment sludge from the	K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride

Code	Waste description .	Code .	Waste description
K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.	K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.
K021	Aqueous spent antimony catalyst waste from fluoromethane production.	K035	Wastewater treatment sludges generated in the production of creosote.
K022	Distillation bottom tars from the production of phenol/acetone from cumene.	K036	Still bottoms from toluene reclamation distillation in the production of disulfoton
K023	Distillation light ends from the production of phthalic anhydride from	· K037	Wastewater treatment sludges from the production of disulfoton.
	naphthalene.	K038	Wastewater from the washing and stripping of phorate production.
K024	Distillation bottoms from the production of phthalic anhydride from naphthalene.	K039	Filter cake from the filtration of diethylphosphorodithioic acid in the
K025	Distillation bottoms from the production of nitrobenzene by the nitration of		production of phorate.
****	benzene.	K040	Wastewater treatment sludge from the production of phorate.
K026	Stripping still tails from the production of methyl ethyl pyridines.	K041	Wastewater treatment sludge from the production of toxaphene.
K027	Centrifuge and distillation residues from toluene diisocyanate production.	K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-		the production of 2,4,5-T.
K029	Waste from the product steam stripper in	K043	2,6-dichlorophenol waste from the production of 2,4-D.
	the production of 1,1,1-trichloroethane.	K044	Wastewater treatment sludges from the manufacturing and processing of
K030	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.	K045	explosives. Spent carbon from the treatment of
K031	By-product salts generated in the	11043	wastewater containing explosives.
	production of MSMA and cacodylic acid.	K046	Wastewater treatment sludges from the manufacturing, formulation, and loading
K032	Wastewater treatment sludge from the production of chlordane.	K047	of lead-based initiating compounds. Pink/red water from TNT operations.
K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.	K048	Dissolved air flotation (DAF) float from the petroleum refining industry.

Code	Waste description	Code	Waste description
		•	
K049	Slop oil emulsion solids from the petroleum refining industry.	K083	Distillation bottoms from aniline production.
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.	K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-
K051	API separator sludge from the petroleum refining industry.		arsenic compounds.
K052	Tank bottoms (leaded) from the petroleum refining industry.	K085	Distillation or fractionation column bottoms from the production of chlorobenzenes.
K060	Ammonia still lime sludge from coking operations.	K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment
K061	Emission control dust/sludge from the primary production of steel in electric furnaces.		used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.
K062	Spent pickle liquor from steel finishing operations of plants that produce iron or steel.	K087	Decanter tank tar sludge from coking operations.
K064	Acid plant blowdown slurry/sludge resulting from the thickening of	K088	Spent potliners from primary aluminum reduction.
	blowdown slurry from primary copper production.	K090	Emission control dust or sludge from ferrochromiumsilicon production.
K065	Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.	K091	Emission control dust or sludge from ferrochromium production.
K066	Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.	K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.
K069	Emission control dust/sludge from secondary lead smelting.	K094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.
K071	Brine purification muds from the mercury cell process in chlorine production, in	K095	Distillation bottoms from the production of 1,1,1-trichloroethane.
	which separately prepurified brine is not used.	K096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.
K073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.	K097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.

Code	Waste description	Code	Waste description
K098	Untreated process wastewater from the production of toxaphene.	K109	Spent filter cartridges from product purification from the product of 1,1-dimethylhydrazine from carboxylic acid
K099	Untreated wastewater from the production of 2,4-D.		hydrazides.
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.	K110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine from carboxylic acid hydrazides.
K101	Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary	K111	Product washwaters from the production of dinitrotoluene via nitration of toluene.
K102	pharmaceuticals from arsenic or organo- arsenic compounds. Residue from the use of activated carbon	K112	Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.
	for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	K113	Condensed liquid light ends from purification of toluenediamine in production of toluenediamine via
K103	Process residues from aniline extraction from the production of aniline.	* * *	hydrogenation of dinitrotoluene.
K104	Combined wastewaters generated from nitrobenzene/aniline production.	K114	Vicinals from the purification of toluenediamine in production of toluenediamine via hydrogenation of dinitrotoluene.
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.	K115	Heavy ends from purification of toluenediamine in the production of
K106	Wastewater treatment sludge from the mercury cell process in chlorine		toluenediamine via hydrogenation of dinitrotoluene.
	production.	K116	Organic condensate from the solvent recovery column in the production of
K107	Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from		toluene diisocyanate via phosgenation of toluenediamine.
K108	carboxylic acid hydrazides. Condensed column overheads from	K117	Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.
K100	product separation and condensed reactor	V110	
	vent gases from the production of 1,1-dimethylhydrazine from carboxylic acid hydrazides.	K118	Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
		K123	Process wastewater (including supernates, filtrates, and washwaters) from the

Code	Waste description		Code	Waste description
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	production of ethylenebisdithiocarbamic acid and its salts. Hazardous Code T.		K144	Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump
K124	Reactor vent scrubber water from the		, d	sludges from the recovery of coke by-
	production of ethylenebisdithiocarbamic acid and its salts. Hazardous Code T.	· ·	•	products produced from coal.
T7105	-	<i>}</i>	K145	Residues from naphthalene collection and
K125	Filtration, evaporation, and centrifugation solids from the production of			recovery operations from the recovery of coke by-products produced from coal.
	ethylenebisdithiocarbamic acid and its salts. Hazardous Code T and C.		K147	Town storage medidates from and the
			K147	Tar storage residues from coal tar refining.
K126	Baghouse dust and floor sweepings in			
	milling and packaging operations from production or formulation of		K148	Residues from coal tar distillation, including, but not limited to, still bottoms.
	ethylenebisdithiocarbamic acid and its salts. Hazardous Code T.		TZ 1.40	Discillation from the control of
TT 4 0 4			K149	Distillation bottoms from the production of alpha (or methyl-) chlorinated tolunes,
K131	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the	,	,	ring-chlorinated tolunes, benzol chlorides, and compounds with mixtures of these
. •	production of methyl bromide.	٠	•	functional groups. [This waste does not include still bottoms from the distillation
K132	Spent absorbent and wastewater			of benzol chloride]
* * * *	separator solids from the production of methyl bromide.		K150	Organic residules excluding spent carbon
K136	Still bottoms from the purification of		÷ .	adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes
	ethylene dibromide in the production of ethylene dibromide via bromination of			associated with the production of alpha
	ethene.	- 4		(or methyl-) chlorinated tolunes, benzol chlorides, and compounds with mixtures of these functional groups.
K141	Process residues from the recovery of			of these functional groups.
į.	coal tar, including, but not limited to, tar collecting sump residues from the		K151	Wastewater treatment sludges, excluding neutralization and biological sludges,
,	production of coke from coal or the			generated during the treatment of
	recovery of coke by-products produced	· · ·		wastewaters from the production of alpha
	from coal. This listing does not include			(or methyl-) chlorinated tolunes, benzol
	K087 (decanter tank sludge from coking operations).	e		chlorides, and compounds with mixtures of these functional groups.
K142	Tank storage residues from the		DISCA	RDED COMMERCIAL CHEMICAL
	production of coke from coal or from the		PRODU	JCTS, OFF-SPECIFICATION SPECIES,
	recovery of coke by-products from coal.			AINER RESIDUALS, AND SPILL UES THEREOFACUTEHAZARDOUS
K143	Process residues from the recovery of light oil, including, but not limited to,		WASTI	
	those generated in stills, decanters, and	•	(AN AL	PHABETIZED LISTING CAN BE
	wash oil recovery units from the recovery			AT 40 CFR 261.33.)
• • • • • • • • • • • • • • • • • • •	of coke by-products produced from coal.			

Code	Waste description	Code	Waste description
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P001	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-	P012	Arsenic trioxide
	oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%	P013	Barium cyanide
P001	Warfarin, & salts, when present at	P014	Benzenethiol
FOOT	concentrations greater than 0.3%	P014	Thiophenol
P002	1-Acetyl-2-thiourea	P015	Beryllium
P002	Acetamide, N-(aminothioxomethyl)-	P016	Dichloromethyl ether
P003	2-Propenal	P016	Methane, oxybis[chloro-
P003	Acrolein	P017	2-Propanone, 1-bromo-
P004	1,4,5,8-Dimethanonaphthalene,	P017	Bromoacetone
ŧ	1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a,- hexahydro-, (1alpha, 4alpha, 4abeta,	P018	Brucine
	5alpha, 8alpha, 8abeta)-	P018	Strychnidin-10-one, 2,3-dimethoxy-
P004	Aldrin	P020	Dinoseb
P005	2-Propen-1-ol	P020	Phenol, 2-(1-methylpropyl)-4,6-dinitro-
P005	Allyl alcohol	P021	Calcium cyanide
P006	Aluminum phosphide (R,T)	P021	Calcium cyanide Ca(CN) ₂
P007	3(2H)-Isoxazolone, 5-(aminomethyl)-	P022	Carbon disulfide
P007	5-(Aminomethyl)-3-isoxazolol	P023	Acetaldehyde, chloro-
P008	4-Aminopyridine	1	
P008	4-Pyridinamine	P023	Chloroacetaldehyde
P009	Ammonium picrate (R)	P024	Benzenamine, 4-chloro-
P009	Phenol, 2,4,6-trinitro-, ammonium salt	P024	p-Chloraniline
	(R)	`P026	1-(o-Chlorophenyl)thiourea
P010	Arsenic acid H ₃ AsO ₄	P026	Thiourea, (2-chlorophenyl)-
P011	Arsenic oxide As ₂ O ₅	P027	3-Chloropropionitrile
P011	Arsenic pentoxide	P027	Propanenitrile, 3-chloro-
P012	Arsenic oxide As 2O 3	P028	Benzene, (chloromethyl)-

Code	Waste description	Code	Waste description
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P028	Benzyl chloride	P041	Phosphoric acid, diethyl 4-nitrophenyl ester
P029	Copper cyanide	P042	1.2 Demonstrat & F1 budgerer 2
P029	Copper cyanide Cu(CN)	P042	1,2-Benzenediol, 4-[1-hydroxy-2- (methylamino)ethyl]-, (R)-
P030	Cyanides (soluble cyanide salts), not otherwise specified	P042	Epinephrine
P031	G irmanin	P043	Diisopropylfluorophosphate (DFP)
P031	Cyanogen Ethanedinitrile	P043	Phosphorofluoridic acid, bis(1-methylethyl) ester
D000		7043	The state of the s
P033	Cyanogen chloride	P044	Dimethoate
P033	Cyanogen chloride (CN)Cl	P044	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester
P034	2-Cyclohexyl-4,6-dinitrophenol	P045	2-Butanone, 3,3-dimethyl-1-(methylthio)-,
P034	Phenol, 2-cyclohexyl-4,6-dinitro-		O-[methylamino)carbonyl] oxime
P036	Arsonous dichloride, phenyl-	P045	Thiofanox
P036	Dichlorophenylarsine	P046	alpha, alpha-Dimethylphenethylamine
P037	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-	P046	Benzeneethanamine, alpha, alpha-dimethyl-
	octahydro-, (1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-	P047	4,6-Dinitro-o-cresol, & salts
P037	Dieldrin	P047	Phenol, 2-methyl-4,6-dinitro-, & salts
P038	Arsine, diethyl-	P048	2,4-Dinitrophenol
P038	Diethylarsine	P048	Phenol, 2,4-dinitro-
P039	Disulfoton	P049	Dithiobiuret
P039	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester	P049	Thioimidodicarbonic diamide [(H ₂ N)C(S)] ₂ NH
P040	O,O-Diethyl O-pyrazinyl phosphorothioate	P050	6,9-Methano-2,4,3- benzodioxathiepin,6,7,8,9,10,10- hexachloro-1,5,5a,6,9,9a-hexahydro-,3-
P040	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester		oxide
DO41		P050	Endosulfan
P041	Diethyl-p-nitrophenyl phosphate	P051	2,7:3,6-Dimethanonaphth[2,3-b]oxirene,

Code	Waste description	Code	Waste description
	3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2abeta,	P065	Mercury fulminate (R,T)
	3alpha, 6alpha, 6abeta, 7beta, 7aalpha)- & metabolites	P066	Ethanimidothioic acid, N- [[(methylamino)carbonyl]oxy]-, methyl
P051	Endrin	, ,	ester
P051	Endrin, & metabolites	P066	Methomyl
P054	Aziridine	P067	1,2-Propylenimine
P054	Ethyleneimine	- P067	Aziridine, 2-methyl-
		P068	Hydrazine, methyl-
P056	Fluorine	P068	Methyl hydrazine
P057	Acetamide, 2-fluoro-	P069	2-Methyllactonitrile
P057	Fluoroacetamide	P069	Propanenitrile, 2-hydroxy-2-methyl-
P058	Acetic acid, fluoro-, sodium salt	P070	Aldicarb
P058	Fluoroacetic acid, sodium salt	•	
P059	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	P070	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime
P059	Heptachlor	P071	Methyl parathion
P060	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a,-	P071	Phosphorothioic acid, O,O,-dimethyl O- (4-nitrophenyl) ester
	hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-	P072	alpha-Naphthylthiourea
P060	Isodrin	P072	Thiourea, 1-naphthalenyl-
P062	Hexaethyl tetraphosphate	P073	Nickel carbonyl
	· · · · · · · · · · · · · · · · · ·	P073	Nickel carbonyl Ni(CO) 4 (T-4)-
P062	Tetraphosphoric acid, hexaethyl ester	P074	Nickel cyanide
P063	Hydrocyanic acid	P074	Nickel cyanide Ni(CN) ₂
P063	Hydrogen cyanide	P075	Nicotine, & salts
P064	Methane, isocyanato-	P075	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-,
P064	Methyl isocyanate	1015	& salts
P065	Fulminic acid, mercury(2+) salt (R,T)	P076	Nitric oxide

Code	Waste description	Code	Waste description
P076	Nitrogen oxide NO	P094	Phosphorodithioic acid, O,O-diethyl S- [(ethylthio)methyl] ester
P077	Benzenamine, 4-nitro-	P095	Carbonic dichloride
P077	p-Nitroaniline		
P078	Nitrogen dioxide	P095	Phosgene
P078	Nitrogen oxide NO ₂	P096	Hydrogen phosphide
		P096	Phosphine
P081	1,2,3-Propanetriol, trinitrate (R)	P097	Famphur
P081	Nitroglycerine (R)	P097	Phosphorothioic acid O-[4-
P082	Methanimine, N-methyl-N-nitroso-	10),	[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester
P082	N-Nitrosodimethylamine	Doog	
P084	N-Nitrosomethylvinylamine	P098	Potassium cyanide
P084	Vinylamine, N-methyl-N-nitroso-	P098	Potassium cyanide K(CN)
P085	Diphosphoramide, octamethyl-	P099	Argentate (1-), bis(cyano-C)-, potassium
		P099	Potassium silver cyanide
P085	Octamethylpyrophosphoramide	P101	Ethyl cyanide
P087	Osmium oxide OsO 4 (T-4)-	P101	Propanenitrile
P087	Osmium tetroxide	P102	2-Propyn-1-ol
P088	7-Oxabicyclo[2.2.1]heptane-2,3-		
1.1	dicarboxylic acid	P102	Propargyl alcohol
P088	Endothall	P103	Selenourea
P089	Parathion	P104	Silver cyanide
P089	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	P104	Silver cyanide Ag(CN)
P092	Mercury, (acetato-O)phenyl-	P105	Sodium azide
		P106	Sodium cyanide
P092	Phenylmercury acetate	P106	Sodium cyanide Na(CN)
P093	Phenylthiourea	P107	Strontium sulfide SrS
P093	Thiourea, phenyl-		Strychnidin-10-one, & salts
P094	Phorate	P108	Suyennium-10-one, & saits

Code	Waste description	-	Code	Waste description
P108	Strychnine, & salts		P122	Zinc phosphide Zn ₃ P ₂ when present at concentrations greater than 10% (R,T)
P109	Tetraethyldithiopyrophosphate	•	D102	
P109	Thiodiphosphoric acid, tetraethyl ester		P123	Toxaphene
P110	Plumbane, tetraethyl-		PRODU	RDED COMMERCIAL CHEMICAL UCTS, OFF-SPECIFICATION SPECIES,
P110	Tetraethyl lead	,		AINER RESIDUES, AND SPILL UES THEREOFTOXICWASTES
P111	Diphosphoric acid, tetraethyl ester	·	•	LPHABETIZED LISTING CAN BE D AT 40 CFR 261.33.)
P111	Tetraethyl pyrophosphate	· .	1 O O T T	
P112	Methane, tetranitro- (R)	*		b 2,3,4,6-Tetrachlorophenol u
P112	Tetranitromethane (R)		•	u 2,4,5-T u
P113	Thallic oxide			u 2,4,5-Trichlorophenol u
P113	Thallium oxide Tl ₂ O ₃		,	u 2,4,6-Trichlorophenol u
P114	Selenious acid, dithallium (1+) salt			u Acetic acid, (2,4,5-trichlorophenoxy)-u
P114	Thallium(I) selenite			u Pentachlorophenol
P115	Sulfuric acid, dithallium (1+) salt		See	c Phenol, 2,3,4,6-tetrachloro-
	· · · · · · · · · · · · · · · · · · ·		F027	u Phenol, 2,4,5-trichloro-
P115	Thallium(I) sulfate			u Phenol, 2,4,6-trichloro-
P116	Hydrazinecarbothioamide			u Phenol, pentachloro-
P116	Thiosemicarbazide			u u Propanoic acid, 2-(2,4,5-
P118	Methanethiol, trichloro-			u u trichlorophenoxy)-
P118	Trichloromethanethiol			u d Silvex (2,4,5-TP)
P119	Ammonium vanadate			5 511/51 (2), 130 11)
P1,19	Vanadic acid, ammonium salt		U001	Acetaldehyde (I)
P120	Vanadium oxide V ₂ O ₅		U001	Ethanal (I)
P120	Vanadium pentoxide		U002	2-Propanone (I)
P121	Zinc cyanide		U002	Acetone (I)
P121	Zinc cyanide Zn(CN) ₂		U003	Acetonitrile (I,T)
		m 4 4	U004	Acetophenone
		B-14	U004	Ethanone, 1-phenyl-

Code	Waste description	Code	Waste description
U005	2-Acetylaminofluorene	U018	Benz[a]anthracene
U005	Acetamide, N-9H-fluoren-2-yl	U019	Benzene (I,T)
U006	Acetyl chloride (C,R,T)	U020	Benzenesulfonic acid chloride (C,R)
U007	2-Propenamide	U020	Benzenesulfonyl chloride (C,R)
U007	Acrylamide	U021	[1,1'-Biphenyl]-4,4'-diamine
U008	2-Propenoic acid (I)	U021	Benzidine
U008	Acrylic acid (I)	U022	Benzo[a]pyrene
U009	2-Propenenitrile	U023	Benzene, (trichloromethyl)-
U009	Acrylonitrile	Ü023	Benzotrichloride (C,R,T)
U010	Azirino [2',3':3,4]pyrrolo[1,2-a]indole-4,7-	U024	Dichloromethoxy ethane
*	dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]- 1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-	U024	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-
*	methyl-, [1aS-(1aalpha, 8beta, 8aalpha, 8balpha)]-	U025	Dichloroethyl ether
U010	Mitomycin C	U025	Ethane, 1,1'-oxybis[2-chloro-
U011	1H-1,2,4-Triazol-3-amine	U026	Chlornaphazin
U011	Amitrole	U026	Naphthalenamine, N,N'-bis(2-chloroethyl)-
U012	Aniline (I,T)	U027	Dichloroisopropyl ether
U012	Benzenamine (I,T)	U027	Propane, 2,2'-oxybis[2-chloro-
U014	Auramine	U028	1,2-Benzenedicarboxylic acid, bis(2-
U014	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-		ethylhexyl) ester
U015	Azaserine	U028	Diethylhexyl phthalate
U015	L-Serine, diazoacetate (ester)	U029	Methane, bromo-
U016	Benz[c]acridine	U029	Methyl bromide
U017	Benzal chloride	U030	4-Bromophenyl phenyl ether
U017		U030	Benzene, 1-bromo-4-phenoxy-
0017	Benzene, (dichloromethyl)-		

Code	Waste description	Code	Waste description
U031	1-Butanol (I)	U043	Vinyl chloride
U031	n-Butyl alcohol (I)	U044	Chloroform
U032	Calcium chromate	U044	Methane, trichloro-
U 032	Chromic acid H ₂ CrO ₄ calcium salt	U045	Methane, chloro- (I,T)
U 033	Carbon oxyfluoride (R,T)	U045	Methyl chloride (I,T)
U 033	Carbonic difluoride	U046	Chloromethyl methyl ether
U034	Acetaldehyde, trichloro-	U046	Methane, chloromethoxy-
U034	Chloral	U047	beta-Chloronaphthalene
U035	Benzenebutanoic acid, 4-[bis(2-	U047	Naphthalene, 2-chloro-
	chloroethyl)amino]-	U048	o-Chlorophenol
U035	Chlorambucil	U048	Phenol, 2-chloro-
U 036	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	U049	4-Chloro-o-toluidine, hydrochloride
U036	Chlordane, alpha & gamma isomers	U049	Benzenamine, 4-chloro-2-methyl-, hydrochloride
U 037	Benzene, chloro-	U050	Chrysene
Ų037	Chlorobenzene	U051	Creosote
U038	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	U052	Cresol (Cresylic acid)
U038	Chlorobenzilate	U052	Phenol, methyl-
U 039	p-Chloro-m-cresol	U053	2-Butenal
U 039	Phenol, 4-chloro-3-methyl-	U053	Crotonaldehyde
U041	Epichlorohydrin	U055	Benzene, (1-methylethyl)- (I)
U041	Oxirane, (chloromethyl)-	U055	Cumene (I)
U042	2-Chloroethyl vinyl ether	U056	Benzene, hexahydro- (I)
U042	Ethene, (2-chloroethoxy)-	U056	Cyclohexane (I)
U043	Ethene, chloro-	U057	Cyclohexanone (I)

Code	Waste description	Code	Waste description
U058	2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide	U070	Benzene, 1,2-dichloro-
U058	Cyclophosphamide	U 070	o-Dichlorobenzene
U059		U071	Benzene, 1,3-dichloro-
0039	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-	U071	m-Dichlorobenzene
	6,8,11-trihydroxy-1-methoxy-(8S-cis)-	U072	Benzene, 1,4-dichloro-
U059	Daunomycin	U072	p-Dichlorobenzene
U060	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	U073	[1,1'-Biphenyl]-4,4'-diamine,3,3'-dichloro-
		U073	3,3'-Dichlorobenzidine
U060	DDD	U074	1,4-Dichloro-2-butene (I,T)
U061	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-	U074	2-Butene, 1,4-dichloro-(I,T)
U061	DDT	U075	Dichlorodifluoromethane
U062	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester	U075	Methane, dichlorodifluoro-
T70.60		U076	Ethane, 1,1-dichloro-
U062	Diallate	U076	Ethylidene dichloride
U063	Dibenz[a,h]anthracene	U077	Ethane, 1,2-dichloro-
U064	Benzo[rst]pentaphene		
U064	Dibenzo[a,i]pyrene	U077	Ethylene dichloride
U066	1,2-Dibromo-3-chloropropane	U078	1,1-Dichloroethylene
U066	Propane, 1,2-dibromo-3-chloro-	U078	Ethene, 1,1-dichloro-
		U079	1,2-Dichloroethylene
U067	Ethane, 1,2-dibromo-	U079	Ethene, 1,2-dichloro-,(E)-
U06.7	Ethylene dibromide	U080	Methane, dichloro-
U068	Methane, dibromo-		
U068	Methylene bromide	U080	Methylene chloride
U069	1,2-Benzenedicarboxylic acid, dibutyl ester	U081	2,4-Dichlorophenol
U069	Dibutyl phthalate	U081	Phenol, 2,4-dichloro-
	waya puumuv	U082	2,6-Dichlorophenol

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Code	Waste description	Code	Waste description
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U082	Phenol, 2,6-dichloro-	U094	7,12-Dimethylbenz[a]anthracene
U083	Propane, 1,2-dichloro-	U094	Benz[a]anthracene, 7,12-dimethyl-,
U083	Propylene dichloride	U095	[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethyl-
U084	1,3-Dichloropropene	` U095	3,3'-Dimethylbenzidine
U 084	1-Propene, 1,3-dichloro-	U096	alpha,alpha-Dimethylbenzylhydroperoxide (R)
U085	1,2:3,4-Diepoxybutane (I,T)	T7006	
U085	2,2'-Bioxirane	U096	Hydroperoxide, 1-methyl-1-phenylethyl-(R)
U086	Hydrazine, 1,2-diethyl-	U097	Carbamic chloride, dimethyl-
U 086	N,N'-Diethylhydrazine	U097	Dimethylcarbamoyl chloride
U 087	O,O-Diethyl S-methyl dithiophosphate	→ U 098	1,1-Dimethylhydrazine
U087	Phosphorodithioic acid, O,O-diethyl S-	U098	Hydrazine, 1,1-dimethyl-
	methyl ester	U099	1,2-Dimethylhydrazine
U088	1,2-Benzenedicarboxylic acid, diethyl ester	U 099	Hydrazine, 1,2-diphenyl-
U088	Diethyl phthalate	U101	2,4-Dimethylphenol
U089	Diethylstilbesterol	U 101	Phenol, 2,4-dimethyl-
U 089	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis, (E)-	U102	1,2-Benzenedicarboxylic acid, dimethyl
U090	1,3-Benzodioxole, 5-propyl-		ester
		U102	Dimethyl phthalate
U 090	Dihydrosafrole	U103	Dimethyl sulfate
U091	[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethoxy-	U103	Sulfuric acid, dimethyl ester
U091	3,3'-Dimethoxybenzidine	U105	2,4-Dinitrotoluene
U092	Dimethylamine (I)	U105	Benzene, 1-methyl-2,4-dinitro-
·U092	Methanamine, N-methyl- (I)	U106	2,6-Dinitrotoluene
U093	Benzenamine, N,N-dimethyl-4-	U106	Benzene, 2-methyl-1,3-dinitro-
	(phenylazo)-	U107	1,2-Benzenedicarboxylic acid, dioctyl ester
U093	p-Dimethylaminoazobenzene		

Code	Waste description	Code	Waste description
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U107	Di-n-octyl phthalate	U119	Methanesulfonic acid, ethyl ester
U108	1,4-Diethyleneoxide	U120	Fluoranthene
U108	1,4-Dioxane	U121	Methane, trichlorofluoro-
U109	1,2-Diphenylhydrazine	U121	Trichloromonofluoromethane
U109	Hydrazine, 1,2-diphenyl-	U122	Formaldehyde
U110	1-Propanimine, N-propyl-(I)	U123	Formic acid (C,T)
U110	Dipropylamine (I)	U124	Furan (I)
U111	1-Propanamine, N-nitroso-N-propyl-	U124	Furfuran (I)
U111	Di-n-propylnitrosamine	U125	2-Furancarboxaldehyde (I)
Ü112	Acetic acid, ethyl ester (I)	U125	Furfural (I)
U112	Ethyl acetate (I)	U126	Glycidylaldehyde
U113	2-Propenoic acid, ethyl ester (I)	U126	Oxiranecarboxyaldehyde
U113	Ethyl acrylate (I)	U127	Benzene, hexachloro-
U114	Carbamodithioic acid, 1,2-ethanediylbis-, salts & esters	U127	Hexachlorobenzene
		U128	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
U114	Ethylenebisdithiocarbamic acid, salts & esters	U128	Hexachlorobutadiene
U115	Ethylene oxide (I,T)	U129	Cyclohexane, 1,2,3,4,5,6-hexachloro-,
U115	Oxirane (I,T)	•	(1alpha, 2alpha, 3beta, 4alpha, 5alpha, 6beta)-
U116	2-Imidazolidinethione	U129	Lindane
U116	Ethylenethiourea	U130	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-
U117	Ethane, 1,1'-oxybis-(I)	TT4.00	
U117	Ethyl ether (I)	U130	Hexachlorocyclopentadiene
U118	2-Propenoic acid, 2-methyl-, ethyl ester	U131	Ethane, hexachloro-
U118	Ethyl methacrylate	U131	Hexachloroethane
U119	Ethyl methanesulfonate	U132	Hexachlorophene
0117	Luiji monanomionato		

Code	Waste description	Code	Waste description
U132	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	U145	Phosphoric acid, lead(2+) salt (2:3)
U133	Hydrazine (R,T)	U146	Lead subacetate
U134	Hydrofluoric acid (C,T)	U146	Lead, bis(acetato-O)tetrahydroxytri-
U134	Hydrogen fluoride (C,T)	U147	2,5-Furandione
U135	Hydrogen sulfide	U147	Maleic anhydride
U135	Hydrogen sulfide H ₂ S	U148	3,6-Pyridazinedione, 1,2-dihydro-
U136	Arsinic acid, dimethyl-	U148	Maleic hydrazide
U136	Cacodylic acid	U149	Malononitrile
U137	Indeno[1,2,3-cd]pyrene	U149	Propanedinitrile
U138	Methane, iodo-	U150	L-Phenylalanine, 4-[bis(2-
U138	Methyl iodide	11150	chloroethyl)amino]-
U140	1-Propanol, 2-methyl- (I,T)	U150	Melphalan
U140	Isobutyl alcohol (I,T)	U151	Mercury
U141	1,3-Benzodioxole, 5-(1-propenyl)-	U152	2-Propenenitrile, 2-methyl- (I,T)
U141	Isosafrole	U152	Methacrylonitrile (I,T)
U142	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-	U153	Methanethiol (I,T)
	2-one, 1,1a,3,3a,4,5,5,5a,5b,6- decachlorooctahydro-	U153	Thiomethanol (I,T)
U142	Kepone	U154	Methanol (I)
U143	2-Butenoic acid, 2-methyl-, 7-[[2,3-	U154	Methyl alcohol (I)
0143	dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-	U155	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-
	pyrrolizin-1-yl ester, [1S-[1alpha(Z), 7(2S*,3R*), 7aalpha]]-	U155	Methapyrilene
U143	Lasiocarpine	U156	Carbonochloridic acid, methyl ester, (I,T)
U144	Acetic acid, lead(2+) salt	U156	Methyl chlorocarbonate (I,T)
U144	Lead acetate	U157	3-Methylcholanthrene
U145	Lead phosphate	U157	Benz[j]aceanthrylene, 1,2-dihydro-3-

Code	Waste description	Code	Waste description
		·	
	methyl-	U169	Nitrobenzene (I,T)
U158	4,4'-Methylenebis(2-chloroaniline)	U170	p-Nitrophenol (I,T)
U158	Benzenamine, 4,4'-methylenebis[2-chloro-	U170	Phenol, 4-nitro-
U159	2-Butanone (I,T)	U171	2-Nitropropane (I,T)
U159	Methyl ethyl ketone (MEK) (I,T)	U171	Propane, 2-nitro- (I,T)
U160	2-Butanone, peroxide (R,T)	U172	1-Butanamine, N-butyl-N-nitroso-
U160	Methyl ethyl ketone peroxide (R,T)	U172	N-Nitrosodi-n-butylamine
U161	4-Methyl-2-pentanone (I)	U173	Ethanol, 2,2'-(nitrosoimino)bis-
U161	Methyl isobutyl ketone (I)	U173	N-Nitrosodiethanolamine
U161	Pentanol, 4-methyl-	U174	Ethanamine, N-ethyl-N-nitroso-
U162	2-Propenoic acid, 2-methyl-, methyl ester	U174	N-Nitrosodiethylamine
	(I,T)	U176	N-Nitroso-N-ethylurea
U162	Methyl methacrylate (I,T)	U176	Urea, N-ethyl-N-nitroso-
U163	Guanidine, N-methyl-N'-nitro-N-nitroso-	U177	N-Nitroso-N-methylurea
U163	MNNG	U177	Urea, N-methyl-N-nitroso-
U164	4(1H)-Pyrimidinone, 2,3-dihydro-6- methyl-2-thioxo-	U178	Carbamic acid, methylnitroso-, ethyl ester
U164	Methylthiouracil	U178	N-Nitroso-N-methylurethane
U165	Naphthalene	U179	N-Nitrosopiperidine
'U166	1,4-Naphthalenedione	U179	Piperidine, 1-nitroso-
U166	1,4-Naphthoquinone	U180	N-Nitrosopyrrolidine
U167	1-Napthalenamine	U180	Pyrrolidine, 1-nitroso-
U167	alpha-Naphthylamine	U181	5-Nitro-o-toluidine
U168	2-Napthalenamine	U181	
			Benzenamine, 2-methyl-5-nitro
U168	beta-Naphthylamine	U182	1,3,5-Trioxane,2,4,6-trimethyl-
U169	Benzene, nitro-	U182	Paraldehyde

Code	Waste description	Code	Waste description
U183	Benzene, pentachloro-	U197	2,5-Cyclohexadiene-1,4-dione
U183	Pentachlorobenzene	U197	p-Benzoquinone
U184	Ethane, pentachloro-	U200	Reserpine
U184	Pentachloroethane	U200	Yohimban-16-carboxylic acid, 11,17-
U185	Benzene, pentachloronitro-		dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,
U185	Pentachloronitrobenzene (PCNB)		(3beta, 16beta, 17alpha, 18beta, 20alpha)-
U186	1,3-Pentadiene (I)	U201	1,3-Benzenediol
U186	1-Methylbutadiene (I)	U201	Resorcinol
U187	Acetamide, N-(4-ethoxyphenyl)-	U202	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts
U187	Phenacetin	U202	Saccharin, & salts
U188	Phenol	U203	1,3-Benzodioxole, 5-(2-propenyl)-
U189	Phosphorus sulfide (R)	U203	Safrole
U189	Sulfur phosphide (R)	U204	Selenious acid
U 190	1,3-Isobenzofurandione	U204	Selenium dioxide
U 190	Phthalic anhydride	U205	Selenium sulfide
U191	2-Picoline	U205	Selenium sulfide SeS ₂ (R,T)
U191	Pyridine, 2-methyl-	U206	D-Glucose, 2-deoxy-2- [[(methylnitrosoamino)-carbonyl]amino]-
U192	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	U206	Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-,D-
U192	Pronamide	U206	Streptozotocin
U193	1,2-Oxathiolane, 2,2-dioxide	U207	1,2,4,5-Tetrachlorobenzene
U193	1,3-Propane sultone	U207	Benzene, 1,2,4,5-tetrachloro-
U194	1-Propanamine (I,T)	U208	1,1,1,2-Tetrachloroethane
U194	n-Propylamine (I,T)		Ethane, 1,1,1,2-tetrachloro-
U196	Pyridine	U208	
		U209	1,1,2,2-Tetrachloroethane

Code	Waste description	Code	Waste description
U209	Ethane, 1,1,2,2-tetrachloro-	U223	Toluene diisocyanate (R,T)
U210	Ethene, tetrachloro-	U225	Bromoform
U210	Tetrachloroethylene	U225	Methane, tribromo-
U211	Carbon tetrachloride	U226	Ethane, 1,1,1-trichloro-
U211	Methane, tetrachloro-	U226	Methyl chloroform
U213	Furan, tetrahydro-(I)	U227	1,1,2-Trichloroethane
U213	Tetrahydrofuran (I)	U227	Ethane, 1,1,2-trichloro-
U214	Acetic acid, thallium(1+) salt	U228	Ethene, trichloro-
U214	Thallium(I) acetate	U228	Trichloroethylene
U215	Carbonic acid, dithallium(1+) salt	U234	1,3,5-Trinitrobenzene (R,T)
U215	Thallium(I) carbonate	U234	Benzene, 1,3,5-trinitro-
U216	Thallium chloride Tlcl	U235	1-Propanol, 2,3-dibromo-, phosphate (3:1)
U216	Thallium(I) chloride	U235	Tris(2,3,-dibromopropyl) phosphate
U217	Nitric acid, thallium(1+) salt	U236	2,7-Naphthalenedisulfonic acid,3,3'-[(3,3'-
U217	Thallium(I) nitrate		dimethyl[1,1'-biphenyl]-4,4'- diyl)bis(azo)bis[5-amino-4-hydroxy]-, tetrasodium salt
U218	Ethanethioamide	*****	
U218	Thioacetamide	U236	Trypan blue
U219	Thiourea	U237	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-
U220	Benzene, methyl-	U237	Uracil mustard
U220	Toluene	U238	Carbamic acid, ethyl ester
U221	Benzenediamine, ar-methyl-	U238	Ethyl carbamate (urethane)
U221	Toluenediamine	U239	Benzene, dimethyl- (I,T)
U222	Benzenamine, 2-methyl-, hydrochloride	U239	Xylene (I)
U222	o-Toluidine hydrochloride	U240	2,4-D, salts & esters
U223	Benzene, 1,3-diisocyanatomethyl- (R,T)	U240	Acetic acid, (2,4-dichlorophenoxy)-, salts

Code	Waste description	Code Waste description
	& esters	
U243	1-Propene, 1,1,2,3,3,3-hexachloro-	
U243	Hexachloropropene	
	,	
U244	Thioperoxydicarbonic diamide	
	[(H ₂ N)C(S)] ₂ S ₂ tetramethyl-	
U244	Thiram	
TTO 4.C	Constant Local Land COND	
U246	Cyanogen bromide (CN)Br	
U247	Benzene, 1,1'-(2,2,2-	
	trichloroethylidene)bis[4-methoxy-	
U247	Methoxychlor	
TTO 40	077.1.70	
U248	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when	
	present at concentrations of 0.3% or less	
***	**** 6 * 0 * 1 * 1	
U248	Warfarin, & salts, when present at concentrations of 0.3% or less	
	Concentrations of 0.5 % of 1055	•
U249	Zinc phosphide Zn ₃ P ₂ when present at	
	concentrations of 10% or less	
U328	Benzenamine, 2-methyl-	

U328	o-Toluidine	
U353	Benzenamine, 4-methyl-	

U353	p-Toluidine	
U359	Ethanol, 2-ethoxy-	

U359	Ethylene glycol monoethyl ether	